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ECF-100DR1-11-0078
Revision 2

Comparison of 100-DR-1, 100-DR-2, 100-HR-1, and 100-HR-2 Source Operable Unit Exposure Point Concentrations to Soil Screening Levels Protective of Groundwater and Soil Screening Levels Protective of Surface Water

Prepared for the U.S. Department of Energy
Assistant Secretary for Environmental Management

Contractor for the U.S. Department of Energy
under Contract DE-AC06-08RL14788

CH2MHILL
Plateau Remediation Company
P.O. Box 1600
Richland, Washington 99352

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Document Type: ENV Program/Project: EP & SP

D. L. Morgans
INTERA

Date Published
April 2014

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By Lee Ann Snyder at 6:22 am, Apr 21, 2014

Release Approval Date

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ENVIRONMENTAL CALCULATION COVER PAGE

Part 1: Completed by the Responsible Manager

Project: 100-D/H RI/FS **Date:** 01/07/2014

Calculation Title & Description: Comparison of 100-DR-1, 100-DR-2, 100-HR-1, and 100-HR-2 Source Operable Unit Exposure Point Concentrations to Soil Screening Levels Protective of Groundwater and Soil Screening Levels Protective of Surface Water

Preparer: DL Morgans	**Basis of Qualification:** Education & experience
Checker: TB Hammond	**Basis of Qualification:** Education & experience
Senior Reviewer: RD Evans	**Basis of Qualification:** Education & experience

Part 2: Completed by Preparer

Calculation No.: ECF-100DR1-11-0078 **Revision No.:** 2

Revision History:

Revision No.	Description	Date	Affected Pages ADD ROW
Decisional Draft	First issue	21-Jun-2011	All
Draft A	Incorporated additional waste sites, a revised Kd for hexavalent chromium, revised SSLs for all analytes based on simulation with 70:30/100:0 contaminant source model, and revised background values for gap analytes. Inclusion of all radionuclides regardless of peak year.	07-Oct-2011	Tables X
Rev. 0	Eliminated time-to-peak screening step. Eliminated comparisons to SSLs based on fixed parameter 3-phase model. Incorporated revised waste site decision units and EPC values.	15-Aug-2012	All X
Rev. 1	Incorporated additional waste sites and revised EPC values. Incorporated revised SSL for Sr-90 based on 100:0 rather than 70:30 source distribution.	16-Nov-2012	Tables X
Rev. 2	Comparisons against revised SSL values (ECF-HANFORD-11-0063 Rev. 6) incorporating: • Revised irrigation recharge scenario • Revised Kd values (CLARC as highest precedence source) • Uranium declared NRV (no value required) • Other changes per comment resolution agreements with Ecology	03-Apr-2014	All X

Part 3: Document Review & Approval:

Preparer: DL Morgans / Senior Risk Assessor (CHPRC)

NAME/POSITION

Dana L Morgans 4/3/14

SIGNATURE DATE

ENVIRONMENTAL CALCULATION COVER PAGE (CONTINUED)

Part 3: Document Review & Approval:

Checker:	TB Hammond / Geologist (INTERA, Inc.) NAME/POSITION	
	SIGNATURE	DATE 4/3/14
Senior Reviewer:	RD Evans / Senior Risk Assessor (INTERA, Inc.) NAME/POSITION	
	SIGNATURE	DATE 4/7/2014
Risk/Modeling Integration Manager: APPLICABLE IF CALCULATION IS A RISK ASSESSMENT OR USES AN ENVIRONMENTAL MODEL	AH Aly / Risk & Modeling Integration Manager NAME/POSITION	
	SIGNATURE	DATE 4/8/2014
Responsible Manager:	AH Aly / Risk & Modeling Integration Manager NAME/POSITION	
	SIGNATURE	DATE 4/8/2014

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Terms

CERCLA	*Comprehensive Environmental Response, Compensation, and Liability Act of 1980*
COPC	contaminant of potential concern
DOE	U.S. Department of Energy
ECF	Environmental Calculation File
EPA	Environmental Protection Agency
EPC	Exposure point concentration
FS	Feasibility study
OU	Operable unit
RI	Remedial investigation
STOMP	Subsurface Transport Over Multiple Phases

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1 Purpose

This environmental calculation documents the methodology used to determine if current site conditions for the 100-D/H Area based on post-remediation soil sample results exceed soil screening levels for the protection of groundwater and the protection of surface water. The 100-D/H Area is associated with two source operable units (OUs) in the 100-D Area (100-DR-1 and 100-DR-2), referred to herein as the 100-D Source OU, and two source OUs in the 100-H Area (100-HR-1 and 100-HR-2), referred to herein as the 100-H Source OU. The exposure point concentrations (EPCs) for each waste site decision unit in the 100-D Source OU and 100-H Source OU are compared to soil screening levels to identify contaminants of potential concern (COPCs) for the protection of groundwater pathway and the protection of surface water pathway. This procedure is consistent with the guidance described in EPA 540/R-96/018, *Soil Screening Guidance: Users Guide.* The identified COPCs will be used to support the remedial investigation/feasibility study (RI/FS) process being conducted for the 100 Areas and 300 Area under the *Comprehensive Environmental Response, Compensation, and Liability Act of 1980* (CERCLA).

This environmental calculation supports DOE/RL-2010-95, *Remedial Investigation/Feasibility Study for the 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, and 100-HR-3 Operable Units*, under CERCLA. A summary based upon the comparison of EPCs to soil screening levels described in this environmental calculation will be presented in the RI/FS report.

2 Background

Based on agreements with the Senior Executive Council, modeling with the STOMP simulator (PNNL-15782, *STOMP Subsurface Transport Over Multiple Phases, Version 4: User's Guide*) was performed to provide a basis for estimating soil screening levels for groundwater protection and surface water protection. Soil screening levels for the protection of groundwater and the protection of surface water were estimated using the STOMP 1D 70:30/100:0 Contaminant Source Model, which is a one-dimensional model that assumes either 70 percent contamination of the vadose zone (upper 70 percent contaminated, lower 30 percent uncontaminated [70:30]) or 100 percent contamination of the vadose zone (zero percent uncontaminated [100:0]) beneath a backfilled waste site. Source distributions are assigned based on analyte distribution coefficients (K_d). A 70:30 source distribution is assumed for analytes with a $K_d \geq 2$ mL/g and a 100:0 source distribution is assumed for analytes with a $K_d < 2$ mL/g. An exception to this rule is strontium-90 (total beta radiostrontium) ($K_d = 25$ mL/g), which is conservatively assigned a 100:0 initial source distribution based on field data that indicated strontium-90 distributed throughout the vadose zone at some locations in these OUs. The STOMP 1D 70:30/100:0 Contaminant Source Model includes recharge from irrigation and assumes that all contamination moves downward with no dispersion, volatilization, or credit for mixing with river water.

Comparisons are first conducted between the analyte-specific soil screening levels and EPC values for each waste site decision unit. Comparisons are then conducted between the EPCs and Hanford Site soil background concentrations. Analytes with EPCs that exceed both the 90th percentile background concentration and a soil screening level are considered COPCs and are carried forward to the RI/FS report.

3 Methodology

This section describes the methodology used to compare EPCs for each waste site decision unit to soil screening levels for groundwater protection and surface water protection.

For all detected analytes for the 100-D/H waste site decision units, the following steps are performed:

1. Obtain soil screening levels for the protection of groundwater and the protection of surface water calculated using the STOMP 1D 70:30/100:0 Contaminant Source model.
2. Obtain waste site width relative to general groundwater flow direction.
3. Divide soil screening level by the waste site width to obtain SSL that is scaled to waste site length in direction of groundwater flow.
4. Obtain EPC values for each waste site decision unit within the 100-D Source OU and 100-H Source OU.
5. Individually compare EPCs for each waste site decision unit within the 100-D Source OU and 100-H Source OU to soil screening levels for the protection of groundwater and the protection of surface water.

The previous steps are conducted for all detected analytes in the 100-D Source OU and 100-H Source OU. The following steps are used to provide a list of analytes that also exceed applicable 90th percentile background concentrations.

6. Obtain 90th percentile background values.
7. Compare the EPC value to the applicable lognormal 90th percentile background value.
8. If the EPC is less than or equal to the lognormal 90th percentile background value, then no further comparison is made.
9. If the EPC is greater than the lognormal 90th percentile value, then a comparison to soil screening levels is made.
10. If a lognormal 90th percentile value is not available, then a comparison to soil screening levels is made.

Analytes with EPCs that exceed both the 90th percentile soil background concentration and a STOMP 1D soil screening level are considered COPCs and are carried forward to the RI/FS report.

4 Assumptions and Inputs

Assumptions and inputs associated with soil screening levels, EPCs, and soil background concentrations are described below.

4.1 Soil Screening Levels

Table 4-1 documents the source of information for soil screening levels.

Table 4-1. Soil Screening Level References

Soil Screening Level	Pathway	Reference
STOMP 1D 70:30/100:0 Contaminant Source Model	Groundwater	ECF-HANFORD-11-0063
	Surface Water	ECF-HANFORD-11-0063

Notes:

ECF-HANFORD-11-0063, *STOMP1-D Modeling for Determination of Soil Screening Levels and Preliminary Remediation Goals for 100 Areas D, H, and K Source Areas.*

Table 4-1. Soil Screening Level References

Soil Screening Level	Pathway	Reference

4.1.1 Soil Screening Levels Protective of Groundwater

Soil screening levels for the protection of groundwater at and near the 100-D Source OU and 100-H Source OU have been derived using the following models:

- STOMP 1D 70:30/100:0 Contaminant Source Model

The STOMP 1D groundwater protective soil screening levels for all detected analytes in the 100-D Source OU and 100-H Source OU are provided in Tables 4-2 and 4-3, respectively.

The STOMP 1D 70:30/100:0 Contaminant Source Model as implemented for determination of soil screening levels uses an irrigation recharge scenario and assumes that either the upper 70 percent of the vadose zone is contaminated (for $K_d \geq 2$ mL/g analytes) or the entire vadose zone is contaminated (for $K_d < 2$ mL/g analytes) below clean fill. Operable unit-specific soil screening levels protective of groundwater for the 100-D Source OU and 100-H Source OU calculated using the STOMP 1D 70:30/100:0 Contaminant Source Model are documented in ECF-HANFORD-11-0063, *STOMP 1-D Modeling for Determination of Soil Screening Levels and Preliminary Remediation Goals for 100 Areas D, H, and K Source Areas*.

4.1.2 Soil Screening Levels Protective of Surface Water

Soil screening levels for the protection of surface water are used in the River Corridor RI/FS process because the operable units in this area abut surface water. Soil screening levels for the protection of surface water at and near the 100-D Source OU and 100-H Source OU have been derived using the following models:

- STOMP 1D 70:30/100:0 Contaminant Source Model

The STOMP 1D surface water protective soil screening levels for all detected analytes in the 100-D Source OU and 100-H Source OU are provided in Tables 4-4 and 4-5, respectively.

The STOMP 1D 70:30/100:0 Contaminant Source Model as implemented for determination of soil screening levels uses an irrigation recharge scenario and assumes that either the upper 70 percent of the vadose zone (for $K_d \geq 2$ mL/g analytes) or the entire vadose zone (for $K_d < 2$ mL/g analytes) is contaminated below clean fill. The model takes no credit for dilution of groundwater by mixing with surface water. Operable unit-specific soil screening levels protective of surface water for the 100-D Source OU and 100-H Source OU calculated using the STOMP 1D 70:30/100:0 Contaminant Source Model are documented in ECF-HANFORD-11-0063.

4.2 Exposure Point Concentrations

OSWER 9285.6-10, *Calculating Upper Confidence Limits for Exposure Point Concentrations at Hazardous Waste Sites*, states that, "an exposure point concentration (EPC) is a conservative estimate of the average chemical concentration in an exposure medium." OSWER Publication 9285.7-081, *Supplemental Guidance to RAGS: Calculating the Concentration Term*, states that, "because of the uncertainty associated with estimating the true average concentration at a site, the 95 percent upper confidence limit (UCL) of the arithmetic mean should be used for this variable."

The EPCs used for comparison to soil screening levels are the analyte-specific values computed from the post-remediation soil sample results for each waste site decision unit in the 100-D Source OU and 100-H Source OU, as described in ECF-100DR1-11-0004, *Computation of Exposure Point Concentrations for the 100-DR-1, 100-DR-2, 100-HR-1, and 100-HR-2 Source Operable Units*. The EPCs for each waste site decision unit are presented in Table 4-6 for the 100-D Source OU and Table 4-7 for the 100-H Source OU.

4.3 Hanford Site Background

EPA 540-R-01-003, *Guidance for Comparing Background and Chemical Concentrations in Soil for CERCLA Sites*, provides national policy considerations for application of background data in risk assessment and remedy selection. This policy recommends an approach that addresses site-specific background issues in the risk characterization. EPA 540-R-01-003 indicates the following:

> "COPCs that have both release-related and background-related sources should be included in the risk assessment. When concentrations of naturally occurring elements at a site exceed risk-based screening levels, that information should be discussed qualitatively in the risk characterization."

EPA 540-R-01-003 defines background constituents as the following: (1) *anthropogenic* - natural and human-made substances present in the environment as a result of human activities (not specifically related to the CERCLA release in question), and (2) *naturally occurring* - substances present in the environment in forms that have not been influenced by human activity.

Lognormal 90th percentile background values for the Hanford Site (representative of both naturally occurring and anthropogenic substances) have been developed for inorganic chemicals and identified in DOE/RL-92-24, *Hanford Site Background: Part 1, Soil Background for Nonradioactive Analytes*, Summary Table 2. Radionuclide background values are identified in DOE/RL-96-12, *Hanford Site Background: Part 2, Soil Background for Radionuclides*, Table 5-1. ECF-HANFORD-11-0038, *Soil Background Data for Interim Use at the Hanford Site*, reports lognormal 90th percentile background values for most of the metals that are absent from DOE/RL-92-24. The analyte-specific background concentrations are presented in Table 4-8.

5 Software Applications

Microsoft Excel® was used to tabulate the data in electronic spreadsheets. These spreadsheets are provided as tables that accompany this environmental calculation.

6 Calculation

Contaminants of potential concern for groundwater protection and surface water protection at the 100-D Source OU and 100-H Source OU are identified by comparing EPCs to soil screening levels and background concentrations, as described in Sections 3. Results of the comparisons are presented in Section 7. The comparison tables all share a similar format, providing both the values being compared as well as a "Yes/No" column indicating the outcome of the comparison.

7 Results/Conclusions

Results of the comparisons conducted for the 100-D Source OU and 100-H Source OU are summarized in the following subsections.

® Microsoft Excel is a registered product of the Microsoft Corporation.

7.1 100-D Source Operable Unit

Comparison of the 100-D Source OU waste site decision unit EPCs to soil screening levels for groundwater protection and surface water protection, *without consideration of soil background concentrations*, are presented in Tables 7-1 and 7-2, respectively.

Comparison of the 100-D Source OU waste site decision unit EPCs to soil background concentrations is presented in Table 7-3.

Comparison of the 100-D Source OU waste site decision unit EPCs to soil screening levels for groundwater protection and surface water protection, *after consideration of soil background concentrations*, are presented in Tables 7-4 and 7-5, respectively.

Analytes that have an EPC that exceeds both the 90th percentile background concentration as well as a STOMP 1D soil screening level are considered COPCs to be carried forward for further analysis. Comparison results shown in Table 7-4 indicate the 100-D Source OU has seven COPCs for groundwater protection and includes the following:

- 2-(2-methyl-4-chlorophenoxy) propionic acid, alpha-BHC, cadmium, chloroform, methylene chloride, nitrite, and selenium

Comparison results shown in Table 7-5 indicate the 100-D Source OU has three COPCs for surface water protection and includes the following:

- Cadmium, selenium, and silver

All of the analytes reported with an EPC greater than their respective soil screening level were further evaluated. This evaluation consists of reviewing individual reported sample concentrations from each decision unit and evaluating data quality and the basis of the EPC. For example, the EPC is reviewed to determine if it represents a uniform distribution or whether it represents a single detection above the SSL. Additionally, individual sample concentrations are reviewed to determine if they are within the range of naturally occurring levels, or if the detections represent laboratory contamination. The results of this evaluation are presented in Table 7-6. The results of this review indicate that the analytes reported with EPCs greater than SSLs are not COPCs and do not warrant comparison with preliminary remediation goals developed for protection of groundwater or surface water.

7.2 100-H Source Operable Unit

Comparison of the 100-H Source OU waste site decision unit EPCs to soil screening levels for groundwater protection and surface water protection, *without consideration of soil background concentrations*, are presented in Tables 7-7 and 7-8, respectively.

Comparison of the 100-H Source OU waste site decision unit EPCs to soil background concentrations is presented in Table 7-9.

Comparison of the 100-H Source OU waste site decision unit EPCs to soil screening levels for groundwater protection and surface water protection, *after consideration of soil background concentrations*, are presented in Tables 7-10 and 7-11, respectively.

Analytes that have an EPC that exceeds both the 90th percentile background concentration as well as a STOMP 1D soil screening level are considered COPCs to be carried forward for further analysis.

Comparison results shown in Table 7-10 indicate the 100-H Source OU has arsenic as the only COPC for groundwater protection.

Comparison results shown in Table 7-11 indicate the 100-H Source OU has three COPCs for surface water protection and includes the following:

- Cadmium, copper, and mercury

All of the analytes reported with an EPC greater than their respective soil screening level were further evaluated. This evaluation consists of reviewing individual reported sample concentrations from each decision unit and evaluating data quality and the basis of the EPC. The results of this evaluation are presented in Table 7-12. The results of this review indicate that the analytes reported with EPCs greater than SSLs are not COPCs and do not warrant comparison with preliminary remediation goals developed for protection of groundwater or surface water.

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PNNL-18577, 2009, *A Review of Metal Concentrations Measured in Surface Soil Samples Collected on and Around the Hanford Site*, Pacific Northwest National Laboratory, Richland, Washington.

Table 4-2. Summary of Soil Screening Levels Protective of Groundwater for the 100-D Source Operable Unit				
Analyte Name	CAS No.	Distribution Coefficient (K_d) Value (mL/g)[a]	Estimated Quantitation Limit (pCi/g, µg/kg)[b]	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection (pCi/g, µg/kg)[c]
Radionuclides				
Americium-241	14596-10-2	200	1.0	--[d]
Carbon-14	14762-75-5	200	--	--[d]
Cesium-137	10045-97-3	50	0.10	--[d]
Cobalt-60	10198-40-0	50	0.050	--[d]
Europium-152	14683-23-9	200	0.10	--[d]
Europium-154	15585-10-1	200	0.10	--[d]
Europium-155	14391-16-3	200	0.10	--[d]
Nickel-63	13981-37-8	30	--	--[d]
Plutonium-238	13981-16-3	200	1.0	--[d]
Plutonium-239/240	PU-239/240	200	1.0	--[d]
Technetium-99	14133-76-7	0	--	36
Total beta radiostrontium	SR-RAD	25	--	23,066
Tritium	10028-17-8	0	--	1,616
Nonradionuclides				
1,1-Dichloroethene	75-35-4	0.065	10	696
1,2-Dichlorobenzene	95-50-1	0.38	330	204,817
2-(2-methyl-4-chlorophenoxy) propionic acid	93-65-2	0.049	2.10E+03	2,673
2,4,5-Trichlorophenol	95-95-4	1.6	330	1.05E+06
2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	0.10	13	15,965
2,4-Dichlorophenol	120-83-2	0.15	330	3,882
2,4-Dinitrophenol	51-28-5	1.00E-05	825	1,613
2-Butanone	78-93-3	0.0045	10	258,275
2-Chloronaphthalene	91-58-7	2.5	330	1.29E+06
2-Methylnaphthalene	91-57-6	2.5	330	64,553
4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	46	3.3	--[d]
4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	86	3.3	--[d]
4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	678	3.3	--[d]
Acenaphthene	83-32-9	4.9	100	1.89E+06
Acetone	67-64-1	5.75E-04	20	366,090
Aldrin	309-00-2	49	1.7	--[d]
Alpha-BHC	319-84-6	1.8	1.7	20
Alpha-Chlordane	5103-71-9	51	17	--[d]
Aluminum	7429-90-5	1,500	5,000	--[d]
Anthracene	120-12-7	23	50	3.89E+08
Antimony	7440-36-0	45.0	600	--[d]
Aroclor-1242	53469-21-9	78	17	--[d]
Aroclor-1248	12672-29-6	77	17	--[d]
Aroclor-1254	11097-69-1	131	17	--[d]
Aroclor-1260	11096-82-5	822	17	--[d]
Arsenic	7440-38-2	29	1,000	246,464
Barium	7440-39-3	41	500	3.89E+08
Benzo(a)anthracene	56-55-3	358	15	--[d]
Benzo(a)pyrene	50-32-8	0,969	15	--[d]
Benzo(b)fluoranthene	205-99-2	1230	15	--[d]
Benzo(k)fluoranthene	207-08-9	1,230	15	--[d]
Beryllium	7440-41-7	790	200	--[d]
beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	2.1	1.7	85
Bis(2-ethylhexyl) phthalate	117-81-7	111	330	--[d]
Boron	7440-42-8	3.0	2,000	7.78E+06
Butylbenzylphthalate	85-68-7	14	330	1.30E+06
Cadmium	7440-43-9	7	200	26,854
Carbazole	86-74-8	3.4	330	11,983
Chlordane	57-74-9	51	17	--[d]
Chloroform	67-66-3	0.053	5.0	128
Chromium	7440-47-3	1000	200	--[d]
Chrysene	218-01-9	398	100	--[d]
Cobalt	7440-48-4	45	2,000	--[d]
Copper	7440-50-8	22	1,000	2.86E+08
Dibenz[a,h]anthracene	53-70-3	1,789	30	--[d]
Dibenzofuran	132-64-9	9	330	65,587
Dieldrin	60-57-1	26	3.3	7,985

Table 4-2. Summary of Soil Screening Levels Protective of Groundwater for the 100-D Source Operable Unit				
Analyte Name	CAS No.	Distribution Coefficient (K_d) Value (mL/g)[a]	Estimated Quantitation Limit (pCi/g, µg/kg)[b]	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection (pCi/g, µg/kg)[c]
Diethylphthalate	84-66-2	0.082	330	1.44E+06
Di-n-butylphthalate	84-74-2	1.6	330	2.06E+06
Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	4.3	1.5	24,198
Endosulfan II	33213-65-9	2.0	3.3	160,382
Ethylbenzene	100-41-4	0.20	5.0	819
Fluoranthene	206-44-0	49	50	--[d]
Fluorene	86-73-7	7.7	30	2.02E+06
Fluoride	16984-48-8	150	5,000	--[d]
Gamma-BHC (Lindane)	58-89-9	1.4	1.7	89
Heptachlor epoxide	1024-57-3	83	1.7	--[d]
Hexavalent Chromium	18540-29-9	0.80	--	6,000[e]
Indeno(1,2,3-cd)pyrene	193-39-5	3,470	30	--[d]
Iron	7439-89-6	25	5,000	3.89E+08
Isophorone	78-59-1	0.047	330	3,949
Lead	7439-92-1	10000	500	--[d]
Lithium	7439-93-2	300	2,500	--[d]
Manganese	7439-96-5	65	5,000	--[d]
Mercury	7439-97-6	52	--	--[d]
Methoxychlor	72-43-5	80	17	--[d]
Methylene chloride	75-09-2	0.010	5.0	290
Molybdenum	7439-98-7	20	2,000	1.82E+07
Naphthalene	91-20-3	1.2	100	158,410
Nickel	7440-02-0	65	4,000	--[d]
Nitrate	14797-55-8	0	2,500	2.27E+06
Nitrite	14797-65-0	0	2,500	166,360
Nitrogen in Nitrate	NO3-N	0	750	504,120
Nitrogen in Nitrite	NO2-N	0	750	50,412
Nitrogen in Nitrite and Nitrate	NO2+NO3-N	0	--	504,120
Phenol	108-95-2	0.029	330	173,512
Pyrene	129-00-0	68	50	--[d]
Selenium	7782-49-2	5.0	1,000	200,792
Silver	7440-22-4	8	200	557,308
Strontium	7440-24-6	35	1,000	3.89E+08
Tin	7440-31-5	250	10,000	--[d]
Toluene	108-88-3	0.14	5.0	100,087
Total petroleum hydrocarbons - diesel range	TPHDIESEL	4.00E+00	--	2.00E+06[f]
Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	--	--	2.00E+06[f]
Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	4.00E+00	--	2.00E+06[f]
Total_U_Isotopes	Total_U_Isotopes	--	--	--[g]
Uranium	7440-61-1	450.0	--	--[g]
Vanadium	7440-62-2	1,000	2,500	--[d]
Xylenes (total)	1330-20-7	0.23	10	365,447
Zinc	7440-66-6	62	1,000	--[d]

Notes:

a. Selection of distribution coefficients (Kd values) is described in ECF-HANFORD-12-0023, Rev. 2.

b. Estimated quantitation limits (EQLs) are obtained from DOE/RL-2009-40 (Appendix A) and DOE/RL-2009-41 (Appendix A). The STOMP 1D soil screening level for all analytes defaults to the EQL when the calculated value is less than the EQL.

c. ECF-HANFORD-11-0063. A 70:30 source distribution is used for analytes with Kd≥ 2 mL/g; a 100:0 source distribution is used for analytes with Kd < 2 mL/g. An exception to this rule is strontium-90, which is calculated based on a 100:0 initial source distribution because of data that indicated strontium-90 distributed throughout the vadose zone at some locations in this OU.

d. The calculated soil screening level for the analyte is considered non-representative because there is no breakthrough simulated within 1,000 years for the majority of soil columns (breakthrough is defined as concentrations above 1E-04 µg/L or 1E-04 pCi/L).

e. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

f. The soil screening level for Total Petroleum Hydrocarbons is a default screening level obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."

Table 4-2. Summary of Soil Screening Levels Protective of Groundwater for the 100-D Source Operable Unit				
Analyte Name	**CAS No.**	**Distribution Coefficient (K_d) Value (mL/g)[a]**	**Estimated Quantitation Limit (pCi/g, µg/kg)[b]**	**STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection (pCi/g, µg/kg)[c]**

g. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC. However, uranium has been previously identified in association with the 183-H Solar Evaporation Basin as an indicator parameter for that RCRA site. Uranium has been detected above the RCRA permit levels and was detected above the DWS in 2012 in one location. While the analyte does not constitute a groundwater risk, it is being carried forward into the FS as a COC for the area local to 183-H only, based on detections in groundwater.

-- = Not applicable or no value.

DOE/RL-96-17, *Remedial Design Report/Remedial Action Work Plan for the 100 Area.*

DOE/RL-2009-40, *Sampling and Analysis Plan for the 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, and 100-HR-3 Operable Units Remedial Investigation/Feasibility Study.*
DOE/RL-2009-41, *Sampling and Analysis Plan for the 100-K Decision Unit Remedial Investigation/Feasibility Study.*
ECF-100DR1-11-0004, *Computation of Exposure Point Concentrations for the 100-DR-1, 100-DR-2, 100-HR-1 and 100-HR-2 Source Operable Units .*

ECF-HANFORD-11-0063, *STOMP 1-D Modeling for Determination of Soil Screening Levels and Preliminary Remediation Goals for 100 Areas D, H, and K Source Areas.*
ECF-HANFORD-12-0023, *Groundwater and Surface Water Cleanup Levels and Distribution Coefficients for Nonradiological and Radiological Analytes in the 100 Areas and 300 Area.*

Ecology, 2012, "CLARC Cleanup Levels and Risk Calculations," Washington State Department of Ecology Web-based application available at https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

Table 4-3. Summary of Groundwater Protective Soil Screening Levels for the 100-H Source Operable Unit				
Analyte Name	**CAS No.**	**Distribution Coefficient (K_d) Value (mL/g)[a]**	**Estimated Quantitation Limit (pCi/g, µg/kg)[b]**	**STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection (pCi/g, µg/kg)[c]**
Radionuclides				
Americium-241	14596-10-2	200	1.0	--[d]
Carbon-14	14762-75-5	200	--	--[d]
Cesium-137	10045-97-3	50	0.1	--[d]
Cobalt-60	10198-40-0	50	0.1	--[d]
Europium-152	14683-23-9	200	0.1	--[d]
Europium-154	15585-10-1	200	0.1	--[d]
Neptunium-237	13994-20-2	15	--	1,292
Nickel-63	13981-37-8	30	--	--[d]
Plutonium-238	13981-16-3	200	1.0	--[d]
Plutonium-239/240	PU-239/240	200	1.0	--[d]
Technetium-99	14133-76-7	0	--	306
Total beta radiostrontium	SR-RAD	25	--	95,708
Tritium	10028-17-8	0	--	11,000
Nonradionuclides				
2-Butanone	78-93-3	0.0045	10	2.85E+06
2-Hexanone	591-78-6	0.015	20	27,114
2-Methylnaphthalene	91-57-6	2.5	330	712,673
4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	46	3.3	356,889
4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	86	3.3	2.07E+06
4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	678	3.3	--[d]
Acenaphthene	83-32-9	4.9	100	2.09E+07
Acetone	67-64-1	5.75E-04	20	4.04E+06
Alpha-Chlordane	5103-71-9	51	17	333,765
Aluminum	7429-90-5	1,500	5,000	--[d]
Anthracene	120-12-7	23	50	3.89E+08
Antimony	7440-36-0	45.0	600	5.59E+06
Aroclor-1242	53469-21-9	78	17	241,412
Aroclor-1254	11097-69-1	131	17	1.85E+06
Aroclor-1260	11096-82-5	822	17	--[d]
Arsenic	7440-38-2	29	1,000	19,524
Barium	7440-39-3	41	500	3.89E+08
Benzo(a)anthracene	56-55-3	358	15	--[d]
Benzo(a)pyrene	50-32-8	0,969	15	--[d]
Benzo(b)fluoranthene	205-99-2	1230	15	--[d]
Benzo(k)fluoranthene	207-08-9	1,230	15	--[d]
Beryllium	7440-41-7	790	200	--[d]
beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	2.1	1.7	939
Bis(2-ethylhexyl) phthalate	117-81-7	111	330	1.30E+08
Boron	7440-42-8	3.0	2,000	8.59E+07
Butylbenzylphthalate	85-68-7	14	330	5.98E+06
Cadmium	7440-43-9	7	200	296,335
Carbazole	86-74-8	3.4	330	132,367
Chlordane	57-74-9	51	17	333,765
Chromium	7440-47-3	1000	200	--[d]
Chrysene	218-01-9	398	100	--[d]
Cobalt	7440-48-4	45	2,000	4.47E+06
Copper	7440-50-8	22	1,000	1.36E+08
Dibenz[a,h]anthracene	53-70-3	1,789	30	--[d]
Dibenzofuran	132-64-9	9	330	652,088
Dieldrin	60-57-1	26	3.3	1466
Diethylphthalate	84-66-2	0.082	330	1.57E+07
Di-n-butylphthalate	84-74-2	1.6	330	2.26E+07
Endosulfan I	959-98-8	2.0	1.7	1.77E+06
Fluoranthene	206-44-0	49	50	3.89E+08
Fluorene	86-73-7	7.7	30	2.18E+07
Fluoride	16984-48-8	150	5,000	3.89E+08
gamma-BHC	58-89-9	1.4	0.080	973
Hexavalent Chromium	18540-29-9	0.80	--	6,000[e]
Indeno(1,2,3-cd)pyrene	193-39-5	3,470	30	--[d]
Iron	7439-89-6	25	5,000	3.89E+08

Table 4-3. Summary of Groundwater Protective Soil Screening Levels for the 100-H Source Operable Unit				
Analyte Name	**CAS No.**	**Distribution Coefficient (K_d) Value (mL/g)[a]**	**Estimated Quantitation Limit (pCi/g, µg/kg)[b]**	**STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection (pCi/g, µg/kg)[c]**
Lead	7439-92-1	10000	500	--[d]
Manganese	7439-96-5	65	5,000	3.89E+08
Mercury	7439-97-6	52	--	2.83E+06
Methoxychlor	72-43-5	80	17	2.41E+08
Methylene chloride	75-09-2	0.010	5.0	3,186
Molybdenum	7439-98-7	20	2,000	1.51E+07
Naphthalene	91-20-3	1.2	100	1.74E+06
Nickel	7440-02-0	65	4,000	2.89E+08
Nitrate	14797-55-8	0	2,500	2.51E+07
Nitrite	14797-65-0	0	2,500	1.84E+06
Nitrogen in Nitrate	NO3-N	0	750	5.57E+06
Nitrogen in Nitrite and Nitrate	NO2+NO3-N	0	--	5.57E+06
Pyrene	129-00-0	68	50	3.89E+08
Selenium	7782-49-2	5.0	1,000	2.22E+06
Silver	7440-22-4	8	200	5.86E+06
Total petroleum hydrocarbons - diesel range	TPHDIESEL	4.0	--	2.00E+06[f]
Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	--	--	2.00E+06[f]
Total petroleum hydrocarbons - gasoline range	TPH	--	--	1.00E+06[f]
Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	4.0	--	2.00E+06[f]
Total_U_Isotopes	Total_U_Isotopes	--	--	--[g]
Uranium	7440-61-1	450.0	--	--[g]
Vanadium	7440-62-2	1,000	2,500	--[d]
Xylenes (total)	1330-20-7	0.23	10	3.94E+06
Zinc	7440-66-6	62	1,000	3.89E+08

Notes:

a. Selection of distribution coefficients (Kd values) is described in ECF-HANFORD-12-0023, Rev. 2.

b. Estimated quantitation limits (EQLs) are obtained from DOE/RL-2009-40 (Appendix A) and DOE/RL-2009-41 (Appendix A). The STOMP 1D soil screening level for all analytes defaults to the EQL when the calculated value is less than the EQL.

c. ECF-HANFORD-11-0063. A 70:30 source distribution is used for analytes with Kd ≥ 2 mL/g; a 100:0 source distribution is used for analytes with Kd < 2 mL/g. An exception to this rule is strontium-90, which is calculated based on a 100:0 initial source distribution because of data that indicated strontium-90 distributed throughout the vadose zone at some locations in this OU.

d. The calculated soil screening level for the analyte is considered non-representative because there is no breakthrough simulated within 1,000 years for the majority of soil columns (breakthrough is defined as concentrations above 1E-04 µg/L or 1E-04 pCi/L).

e. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

f. The soil screening level for Total Petroleum Hydrocarbons is a default screening level obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."

g. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC. However, uranium has been previously identified in association with the 183-H Solar Evaporation Basin as an indicator parameter for that RCRA site. Uranium has been detected above the RCRA permit levels and was detected above the DWS in 2012 in one location. While the analyte does not constitute a groundwater risk, it is being carried forward into the FS as a COC for the area local to 183-H only, based on detections in groundwater.

-- = Not applicable or no value.

DOE/RL-96-17, *Remedial Design Report/Remedial Action Work Plan for the 100 Area.*

DOE/RL-2009-40, *Sampling and Analysis Plan for the 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, and 100-HR-3 Operable Units Remedial Investigation/Feasibility Study.*

DOE/RL-2009-41, *Sampling and Analysis Plan for the 100-K Decision Unit Remedial Investigation/Feasibility Study.*

ECF-100DR1-11-0004, *Computation of Exposure Point Concentrations for the 100-DR-1, 100-DR-2, 100-HR-1 and 100-HR-2 Source Operable Units*.

ECF-HANFORD-11-0063, *STOMP 1-D Modeling for Determination of Soil Screeining Levels and Preliminary Remediation Goals for 100 Areas D, H, and K Source Areas.*

ECF-HANFORD-12-0023, *Groundwater and Surface Water Cleanup Levels and Distribution Coefficients for Nonradiological and Radiological Analytes in the 100 Areas and 300 Area*.

Ecology, 2012, "CLARC Cleanup Levels and Risk Calculations," Washington State Department of Ecology Web-based application available at https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

Table 4-4. Summary of Surface Water Protective Soil Screening Levels for the 100-D Source Operable Unit

Analyte	CAS No.	Distribution Coefficient (K_d) Value (mL/g)[a]	Estimated Quantitation Limit (pCi/g, µg/kg)[b]	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection (pCi/g, µg/kg)[c]
Radionuclides				
Americium-241	14596-10-2	200	1.0	--[d]
Carbon-14	14762-75-5	200	--	--[d]
Cesium-137	10045-97-3	50	0.10	--[d]
Cobalt-60	10198-40-0	50	0.050	--[d]
Europium-152	14683-23-9	200	0.10	--[d]
Europium-154	15585-10-1	200	0.10	--[d]
Europium-155	14391-16-3	200	0.10	--[d]
Nickel-63	13981-37-8	30	--	--[d]
Plutonium-238	13981-16-3	200	1.0	--[d]
Plutonium-239/240	PU-239/240	200	1.0	--[d]
Technetium-99	14133-76-7	0	--	36
Total beta radiostrontium	SR-RAD	25	--	23,066
Tritium	10028-17-8	0	--	1,616
Nonradionuclides				
1,1-Dichloroethene	75-35-4	0.065	10	--[f]
1,2-Dichlorobenzene	95-50-1	0.38	330	--[f]
2-(2-methyl-4-chlorophenoxy) propionic acid	93-65-2	0.049	2.10E+03	--[f]
2,4,5-Trichlorophenol	95-95-4	1.6	330	--[f]
2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	0.10	13	--[f]
2,4-Dichlorophenol	120-83-2	0.15	330	--[f]
2,4-Dinitrophenol	51-28-5	1.00E-05	825	--[f]
2-Butanone	78-93-3	0.0045	10	--[f]
2-Chloronaphthalene	91-58-7	2.5	330	--[f]
2-Methylnaphthalene	91-57-6	2.5	330	--[f]
4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	46	3.3	--[f]
4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	86	3.3	--[f]
4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	678	3.3	--[d]
Acenaphthene	83-32-9	4.9	100	--[f]
Acetone	67-64-1	5.75E-04	20	--[f]
Aldrin	309-00-2	49	1.7	--[d]
Alpha-BHC	319-84-6	1.8	1.7	--[f]
Alpha-Chlordane	5103-71-9	51	17	--[d]
Aluminum	7429-90-5	1,500	5,000	--[d]
Anthracene	120-12-7	23	50	--[f]
Antimony	7440-36-0	45.0	600	--[f]
Aroclor-1242	53469-21-9	78	17	--[d]
Aroclor-1248	12672-29-6	77	17	--[d]
Aroclor-1254	11097-69-1	131	17	--[d]
Aroclor-1260	11096-82-5	822	17	--[d]
Arsenic	7440-38-2	29	1,000	3.89E+08
Barium	7440-39-3	41	500	--[f]
Benzo(a)anthracene	56-55-3	358	15	--[f]
Benzo(a)pyrene	50-32-8	0,969	15	--[f]
Benzo(b)fluoranthene	205-99-2	1230	15	--[f]
Benzo(k)fluoranthene	207-08-9	1,230	15	--[f]
Beryllium	7440-41-7	790	200	--[f]
beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	2.1	1.7	--[f]
Bis(2-ethylhexyl) phthalate	117-81-7	111	330	--[f]
Boron	7440-42-8	3.0	2,000	--[f]
Butylbenzylphthalate	85-68-7	14	330	--[f]
Cadmium	7440-43-9	7	200	1,343
Carbazole	86-74-8	3.4	330	--[f]
Chlordane	57-74-9	51	17	--[d]
Chloroform	67-66-3	0.053	5.0	--[f]

Table 4-4. Summary of Surface Water Protective Soil Screening Levels for the 100-D Source Operable Unit

Analyte	CAS No.	Distribution Coefficient (K_d) Value (mL/g)[a]	Estimated Quantitation Limit (pCi/g, µg/kg)[b]	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection (pCi/g, µg/kg)[c]
Chromium	7440-47-3	1000	200	--[d]
Chrysene	218-01-9	398	100	--[f]
Cobalt	7440-48-4	45	2,000	--[f]
Copper	7440-50-8	22	1,000	4.03E+06
Dibenz[a,h]anthracene	53-70-3	1,789	30	--[f]
Dibenzofuran	132-64-9	9	330	--[f]
Dieldrin	60-57-1	26	3.3	2,774
Diethylphthalate	84-66-2	0.082	330	--[f]
Di-n-butylphthalate	84-74-2	1.6	330	--[f]
Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	4.3	1.5	--[f]
Endosulfan II	33213-65-9	2.0	3.3	94
Ethylbenzene	100-41-4	0.20	5.0	--[f]
Fluoranthene	206-44-0	49	50	--[f]
Fluorene	86-73-7	7.7	30	--[f]
Fluoride	16984-48-8	150	5,000	--[f]
Gamma-BHC (Lindane)	58-89-9	1.4	1.7	89
Heptachlor epoxide	1024-57-3	83	1.7	--[d]
Hexavalent Chromium	18540-29-9	0.80	--	6,000[e]
Indeno(1,2,3-cd)pyrene	193-39-5	3,470	30	--[f]
Iron	7439-89-6	25	5,000	3.89E+08
Isophorone	78-59-1	0.047	330	--[f]
Lead	7439-92-1	10000	500	--[d]
Lithium	7439-93-2	300	2,500	--[f]
Manganese	7439-96-5	65	5,000	--[f]
Mercury	7439-97-6	52	--	--[d]
Methoxychlor	72-43-5	80	17	--[d]
Methylene chloride	75-09-2	0.010	5.0	--[f]
Molybdenum	7439-98-7	20	2,000	--[f]
Naphthalene	91-20-3	1.2	100	--[f]
Nickel	7440-02-0	65	4,000	--[d]
Nitrate	14797-55-8	0	2,500	--[f]
Nitrite	14797-65-0	0	2,500	--[f]
Nitrogen in Nitrate	NO3-N	0	750	--[f]
Nitrogen in Nitrite	NO2-N	0	750	--[f]
Nitrogen in Nitrite and Nitrate	NO2+NO3-N	0	--	--[f]
Phenol	108-95-2	0.029	330	--[f]
Pyrene	129-00-0	68	50	--[f]
Selenium	7782-49-2	5.0	1,000	20,079
Silver	7440-22-4	8	200	18,173
Strontium	7440-24-6	35	1,000	--[f]
Tin	7440-31-5	250	10,000	--[f]
Toluene	108-88-3	0.14	5.0	--[f]
Total petroleum hydrocarbons - diesel range	TPHDIESEL	4.00E+00	--	--[f]
Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	--	--	--[f]
Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	4.00E+00	--	--[f]
Total_U_Isotopes	Total_U_Isotopes	--	--	--[f]
Uranium	7440-61-1	450.0	--	--[f]
Vanadium	7440-62-2	1,000	2,500	--[f]
Xylenes (total)	1330-20-7	0.23	10	--[f]
Zinc	7440-66-6	62	1,000	--[d]

Notes:

a. Selection of distribution coefficients (Kd values) is described in ECF-HANFORD-12-0023, Rev. 2.

b. Estimated quantitation limits (EQLs) are obtained from DOE/RL-2009-40 (Appendix A) and DOE/RL-2009-41 (Appendix A). The STOMP 1D soil screening level for all analytes defaults to the EQL when the calculated value is less than the EQL.

Table 4-4. Summary of Surface Water Protective Soil Screening Levels for the 100-D Source Operable Unit

Analyte	CAS No.	Distribution Coefficient (K_d) Value (mL/g)[a]	Estimated Quantitation Limit (pCi/g, µg/kg)[b]	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection (pCi/g, µg/kg)[c]

c. ECF-HANFORD-11-0063. A 70:30 source distribution is used for analytes with Kd ≥ 2 mL/g; a 100:0 source distribution is used for analytes with Kd < 2 mL/g. An exception to this rule is strontium-90, which is calculated based on a 100:0 initial source distribution because of data that indicated strontium-90 distributed throughout the vadose zone at some locations in this OU.

d. The calculated soil screening level for the analyte is considered non-representative because there is no breakthrough simulated within 1,000 years for the majority of soil columns (breakthrough is defined as concentrations above 1E-04 µg/L or 1E-04 pCi/L).

e. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

f. A soil screening level is not calculated because a surface water cleanup level or surface water standard is not available for the analyte.

-- = Not applicable or no value.

DOE/RL-96-17, *Remedial Design Report/Remedial Action Work Plan for the 100 Area.*

DOE/RL-2009-40, *Sampling and Analysis Plan for the 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, and 100-HR-3 Operable Units Remedial Investigation/Feasibility Study.*

DOE/RL-2009-41, *Sampling and Analysis Plan for the 100-K Decision Unit Remedial Investigation/Feasibility Study.*

ECF-100DR1-11-0004, *Computation of Exposure Point Concentrations for the 100-DR-1, 100-DR-2, 100-HR-1 and 100-HR-2 Source Operable Units .*

ECF-HANFORD-11-0063, *STOMP 1-D Modeling for Determination of Soil Screening Levels and Preliminary Remediation Goals for 100 Areas D, H, and K Source Areas.*

ECF-HANFORD-12-0023, *Groundwater and Surface Water Cleanup Levels and Distribution Coefficients for Nonradiological and Radiological Analytes in the 100 Areas and 300 Area.*

Ecology, 2012, "CLARC Cleanup Levels and Risk Calculations," Washington State Department of Ecology Web-based application available at https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

Table 4-5. Summary of Surface Water Protective Soil Screening Levels for the 100-H Source Operable Unit				
Analyte	CAS No.	Distribution Coefficient (K_d) Value (mL/g)[a]	Estimated Quantitation Limit (pCi/g, µg/kg)[b]	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection (pCi/g, µg/kg)[c]
Radionuclides				
Americium-241	14596-10-2	200	1.0	--[d]
Carbon-14	14762-75-5	200	--	--[d]
Cesium-137	10045-97-3	50	0.1	--[d]
Cobalt-60	10198-40-0	50	0.1	--[d]
Europium-152	14683-23-9	200	0.1	--[d]
Europium-154	15585-10-1	200	0.1	--[d]
Neptunium-237	13994-20-2	15	--	1,292
Nickel-63	13981-37-8	30	--	--[d]
Plutonium-238	13981-16-3	200	1.0	--[d]
Plutonium-239/240	PU-239/240	200	1.0	--[d]
Technetium-99	14133-76-7	0	--	306
Total beta radiostrontium	SR-RAD	25	--	95,708
Tritium	10028-17-8	0	--	11,000
Nonradionuclides				
2-Butanone	78-93-3	0.0045	10	--[e]
2-Hexanone	591-78-6	0.015	20	--[e]
2-Methylnaphthalene	91-57-6	3.0	330	--[e]
4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	46	3.3	--[e]
4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	86	3.3	--[e]
4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	678	3.3	--[d]
Acenaphthene	83-32-9	6.1	100	--[e]
Acetone	67-64-1	6.00E-04	20	--[e]
Alpha-Chlordane	5103-71-9	51	17	5,741
Aluminum	7429-90-5	1,500	5,000	--[d]
Anthracene	120-12-7	24	50	--[e]
Antimony	7440-36-0	3.8	600	--[e]
Aroclor-1242	53469-21-9	45	17	77,252
Aroclor-1254	11097-69-1	76	17	590,694
Aroclor-1260	11096-82-5	822	17	--[d]
Arsenic	7440-38-2	29	1,000	5.02E+07
Barium	7440-39-3	25	500	--[e]
Benzo(a)anthracene	56-55-3	360	15	--[e]
Benzo(a)pyrene	50-32-8	5,500	15	--[e]
Benzo(b)fluoranthene	205-99-2	803	15	--[e]
Benzo(k)fluoranthene	207-08-9	1,230	15	--[e]
Beryllium	7440-41-7	790	200	--[e]
beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	2.1	1.7	--[e]
Bis(2-ethylhexyl) phthalate	117-81-7	110	330	--[e]
Boron	7440-42-8	3.0	2,000	--[e]
Butylbenzylphthalate	85-68-7	14	330	--[e]
Cadmium	7440-43-9	30	200	14,817
Carbazole	86-74-8	3.4	330	--[e]
Chlordane	57-74-9	51	17	5,741
Chromium	7440-47-3	200	200	--[d]
Chrysene	218-01-9	200	100	--[e]
Cobalt	7440-48-4	50	2,000	--[e]
Copper	7440-50-8	22	1,000	1.92E+06
Dibenz[a,h]anthracene	53-70-3	1,790	30	--[e]
Dibenzofuran	132-64-9	11	330	--[e]
Dieldrin	60-57-1	26	3.3	509
Diethylphthalate	84-66-2	0.082	330	--[e]

Table 4-5. Summary of Surface Water Protective Soil Screening Levels for the 100-H Source Operable Unit				
Analyte	CAS No.	Distribution Coefficient (K_d) Value (mL/g)[a]	Estimated Quantitation Limit (pCi/g, µg/kg)[b]	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection (pCi/g, µg/kg)[c]
Di-n-butylphthalate	84-74-2	1.6	330	--[e]
Endosulfan I	959-98-8	2.0	1.7	1,033
Fluoranthene	206-44-0	49	50	--[e]
Fluorene	86-73-7	7.7	30	--[e]
Fluoride	16984-48-8	150	5,000	--[e]
Hexavalent Chromium	18540-29-9	0.80	--	6,000[g]
Indeno(1,2,3-cd)pyrene	193-39-5	3,470	30	--[e]
Iron	7439-89-6	25	5,000	2.58E+08
Lead	7439-92-1	30	500	--[d]
Manganese	7439-96-5	50	5,000	--[e]
Mercury	7439-97-6	30	--	16,981
Methoxychlor	72-43-5	80	17	180,788
Methylene chloride	75-09-2	0.010	5.0	--[e]
Molybdenum	7439-98-7	20	2,000	--[e]
Naphthalene	91-20-3	1.2	100	--[e]
Nickel	7440-02-0	65	4,000	1.50E+08
Nitrate	14797-55-8	0	2,500	--[e]
Nitrite	14797-65-0	0	2,500	--[e]
Nitrogen in Nitrate	NO3-N	0	750	--[e]
Nitrogen in Nitrite and Nitrate	NO2+NO3-N	0	--	--[e]
Pyrene	129-00-0	68	50	--[e]
Selenium	7782-49-2	5.0	1,000	221,801
Silver	7440-22-4	90	200	191,245
Total petroleum hydrocarbons - diesel range	TPHDIESEL	--	--	--[e]
Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	--	--	--[e]
Total petroleum hydrocarbons - gasoline range	TPH	--	--	--[e]
Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	--	--	--[e]
Total_U_Isotopes	Total_U_Isotopes	--	--	--[e]
Uranium	7440-61-1	2.0	--	--[e]
Vanadium	7440-62-2	1,000	2,500	--[e]
Xylenes (total)	1330-20-7	0.23	10	--[e]
Zinc	7440-66-6	30	1,000	2.25E+08

Notes:

a. Distribution coefficient (Kd) values are taken preferentially from DOE/RL-96-17 (Table E-2) as described in ECF-HANFORD-12-0023. The Kd value for carbon-14 is for carbon-14 in solid form, typically associated with graphite. The Kd value for arsenic is taken from the Ecology CLARC database (Ecology 2012).

b. Estimated quantitation limits (EQLs) are obtained from DOE/RL-2009-40 (Appendix A) and DOE/RL-2009-41 (Appendix A). The STOMP 1D soil screening level for all analytes defaults to the EQL when the calculated value is less than the EQL.

c. ECF-HANFORD-11-0063. A 70:30 source distribution is used for analytes with Kd ≥ 2 mL/g; a 100:0 source distribution is used for analytes with Kd < 2 mL/g. An exception to this rule is strontium-90, which is calculated based on a 100:0 initial source distribution because of data that indicated strontium-90 distributed throughout the vadose zone at some locations in this OU.

d. The calculated soil screening level for the analyte is considered non-representative because there is no breakthrough simulated within 1,000 years for the majority of soil columns (breakthrough is defined as concentrations above 1E-04 µg/L or 1E-04 pCi/L).

e. A soil screening level is not calculated because a surface water cleanup level or surface water standard is not available for the analyte.

g. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

-- = Not applicable or no value.

DOE/RL-96-17, *Remedial Design Report/Remedial Action Work Plan for the 100 Area.*

DOE/RL-2009-40, *Sampling and Analysis Plan for the 100-DR-1, 100-DR-2, 100-HR-1, 100-HR-2, and 100-HR-3 Operable Units Remedial Investigation/Feasibility Study.*

Table 4-5. Summary of Surface Water Protective Soil Screening Levels for the 100-H Source Operable Unit				
Analyte	CAS No.	Distribution Coefficient (K_d) Value (mL/g)[a]	Estimated Quantitation Limit (pCi/g, µg/kg)[b]	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Surface Water Protection (pCi/g, µg/kg)[c]

DOE/RL-2009-41, *Sampling and Analysis Plan for the 100-K Decision Unit Remedial Investigation/Feasibility Study.*

ECF-100DR1-11-0004, *Computation of Exposure Point Concentrations for the 100-DR-1, 100-DR-2, 100-HR-1 and 100-HR-2 Source Operable Units.*

ECF-HANFORD-11-0063, *STOMP 1-D Modeling for Determination of Soil Screening Levels and Preliminary Remediation Goals for 100 Areas D, H, and K Source Areas.*

ECF-HANFORD-12-0023, *Groundwater and Surface Water Cleanup Levels and Distribution Coefficients for Nonradiological and Radiological Analytes in the 100 Areas and 300 Area.*

Ecology, 2012, "CLARC Cleanup Levels and Risk Calculations," Washington State Department of Ecology Web-based application available at https://fortress.wa.gov/ecy/clarc/CLARCHome.aspx.

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-1_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.92E+06
100-D-1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,027
100-D-1_Shallow	non-Rad	Barium	7440-39-3	µg/kg	67,985
100-D-1_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	202
100-D-1_Shallow	non-Rad	Boron	7440-42-8	µg/kg	2,100
100-D-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,135
100-D-1_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,617
100-D-1_Shallow	non-Rad	Copper	7440-50-8	µg/kg	20,107
100-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	417
100-D-1_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.34E+07
100-D-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,961
100-D-1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	322,021
100-D-1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	7.3
100-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	1.4
100-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	350
100-D-1_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,343
100-D-1_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	17
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	12,187
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	43,478
100-D-1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	63,051
100-D-1_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	43,845
100-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.079
100-D-13_Shallow_Focused	non-Rad	2-(2-methyl-4-chlorophenoxy) propionic acid	93-65-2	µg/kg	2,000
100-D-13_Shallow_Focused	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	µg/kg	11
100-D-13_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.66
100-D-13_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	7.10E+06
100-D-13_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,100
100-D-13_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	70,600
100-D-13_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	1,000
100-D-13_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	74
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	4,900
100-D-13_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	66
100-D-13_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	10,900
100-D-13_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,000
100-D-13_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	13,400
100-D-13_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	64
100-D-13_Shallow_Focused	non-Rad	Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	µg/kg	3.0
100-D-13_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	1,400
100-D-13_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.91E+07
100-D-13_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	6,300
100-D-13_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	271,000
100-D-13_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	14
100-D-13_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	680
100-D-13_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,000
100-D-13_Shallow_Focused	non-Rad	Nitrate	14797-55-8	µg/kg	27,500
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,800
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	6,700
100-D-13_Shallow_Focused	non-Rad	Phenol	108-95-2	µg/kg	22
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	µg/kg	890
100-D-13_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	2,600
100-D-13_Shallow_Focused	non-Rad	Uranium	7440-61-1	µg/kg	1,500
100-D-13_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	46,400
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	122,000
100-D-13_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.20
100-D-13_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.097
100-D-13_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.18
100-D-15_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	6.32E+06
100-D-15_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	µg/kg	7.4
100-D-15_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	µg/kg	8.5
100-D-15_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,199
100-D-15_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	64,053
100-D-15_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	191
100-D-15_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,510
100-D-15_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	62
100-D-15_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	11,801
100-D-15_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	6,698
100-D-15_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	12,273
100-D-15_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	130
100-D-15_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	1.99E+07
100-D-15_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	4,546
100-D-15_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	277,857
100-D-15_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	29
100-D-15_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	380
100-D-15_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	10,447
100-D-15_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	8,272
100-D-15_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	54,073
100-D-15_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	39,833
100-D-15_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	µg/kg	3.6
100-D-15_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	5.7
100-D-15_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	7.78E+06
100-D-15_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	4,025
100-D-15_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	84,309
100-D-15_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	270
100-D-15_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	427
100-D-15_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,652
100-D-15_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	965
100-D-15_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	14,486
100-D-15_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	7,880
100-D-15_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	20,641
100-D-15_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	173
100-D-15_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	2.28E+07
100-D-15_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	7,175
100-D-15_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	326,395
100-D-15_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	25
100-D-15_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	553
100-D-15_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	13,099

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-15_Shallow_2	non-Rad	Selenium	7782-49-2	µg/kg	477
100-D-15_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	32,560
100-D-15_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	60,475
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	92,810
100-D-18_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	2,600
100-D-18_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,920
100-D-18_Deep	Rad	Cesium-137	10045-97-3	pCi/g	18
100-D-18_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.2
100-D-18_Deep	Rad	Europium-152	14683-23-9	pCi/g	9.8
100-D-18_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1
100-D-18_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10
100-D-18_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28
100-D-18_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.54
100-D-18_Deep	Rad	Uranium-238	U-238	pCi/g	0.65
100-D-19_Deep_Focused	non-Rad	Mercury	7439-97-6	µg/kg	1,580
100-D-19_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.37
100-D-19_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	817
100-D-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.41E+06
100-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,100
100-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	65,000
100-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	190
100-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	3,300
100-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	7,300
100-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,000
100-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,500
100-D-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	410
100-D-2_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.12E+07
100-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	8,900
100-D-2_Shallow_Focused	non-Rad	Lithium	7439-93-2	µg/kg	4,700
100-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	294,000
100-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	920
100-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,800
100-D-2_Shallow_Focused	non-Rad	Strontium	7440-24-6	µg/kg	24,600
100-D-2_Shallow_Focused	non-Rad	Tin	7440-31-5	µg/kg	2,400
100-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	50,100
100-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	51,300
100-D-20_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,563
100-D-20_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.21
100-D-20_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.5
100-D-20_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.072
100-D-20_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.55
100-D-20_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.041
100-D-20_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.77
100-D-20_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.036
100-D-20_Shallow	Rad	Uranium-238	U-238	pCi/g	0.86
100-D-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.028
100-D-22_Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,200
100-D-22_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,500
100-D-22_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.059
100-D-22_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20
100-D-22_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.033
100-D-22_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37
100-D-22_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30
100-D-22_Shallow	Rad	Uranium-238	U-238	pCi/g	0.84
100-D-24_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	4.49E+06
100-D-24_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,300
100-D-24_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	60,300
100-D-24_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	271
100-D-24_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	58
100-D-24_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,900
100-D-24_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	201
100-D-24_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	6,200
100-D-24_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,600
100-D-24_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,300
100-D-24_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	22
100-D-24_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	243
100-D-24_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.08E+07
100-D-24_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,100
100-D-24_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	295,000
100-D-24_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	65
100-D-24_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	7.1
100-D-24_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	466
100-D-24_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,800
100-D-24_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,956
100-D-24_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	48,700
100-D-24_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	41,600
100-D-24_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.57
100-D-24_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.66
100-D-28:1_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	5.94E+06
100-D-28:1_Overburden	non-Rad	Anthracene	120-12-7	µg/kg	32
100-D-28:1_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	616
100-D-28:1_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,242
100-D-28:1_Overburden	non-Rad	Barium	7440-39-3	µg/kg	57,527
100-D-28:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	879
100-D-28:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	127
100-D-28:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	165
100-D-28:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	80
100-D-28:1_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,042
100-D-28:1_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	73
100-D-28:1_Overburden	non-Rad	Carbazole	86-74-8	µg/kg	76
100-D-28:1_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	9,399
100-D-28:1_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	559
100-D-28:1_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,751
100-D-28:1_Overburden	non-Rad	Copper	7440-50-8	µg/kg	14,727
100-D-28:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	48
100-D-28:1_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	374

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-28:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	284
100-D-28:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	96
100-D-28:1_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.05E+07
100-D-28:1_Overburden	non-Rad	Lead	7439-92-1	µg/kg	13,258
100-D-28:1_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	283,917
100-D-28:1_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	79
100-D-28:1_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	330
100-D-28:1_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	10,387
100-D-28:1_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	827
100-D-28:1_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	54,469
100-D-28:1_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	42,796
100-D-28:1_Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	45
100-D-28:1_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.12E+06
100-D-28:1_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	110
100-D-28:1_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	380
100-D-28:1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,258
100-D-28:1_Shallow	non-Rad	Barium	7440-39-3	µg/kg	63,402
100-D-28:1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	32
100-D-28:1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	47
100-D-28:1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	39
100-D-28:1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	20
100-D-28:1_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	90
100-D-28:1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	160
100-D-28:1_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,300
100-D-28:1_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	130
100-D-28:1_Shallow	non-Rad	Carbazole	86-74-8	µg/kg	120
100-D-28:1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,867
100-D-28:1_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	47
100-D-28:1_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,101
100-D-28:1_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,362
100-D-28:1_Shallow	non-Rad	Dibenzofuran	132-64-9	µg/kg	43
100-D-28:1_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	30
100-D-28:1_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	50
100-D-28:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	203
100-D-28:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	36
100-D-28:1_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.03E+07
100-D-28:1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,144
100-D-28:1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	305,116
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	572
100-D-28:1_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	410
100-D-28:1_Shallow	non-Rad	Naphthalene	91-20-3	µg/kg	46
100-D-28:1_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,864
100-D-28:1_Shallow	non-Rad	Phenol	108-95-2	µg/kg	28
100-D-28:1_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	91
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	µg/kg	1,700
100-D-28:1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	54,615
100-D-28:1_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	59,414
100-D-28:1_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.97
100-D-28:1_Staging Pile Area Footprint	non-Rad	Alpha-BHC	319-84-6	µg/kg	0.49
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	µg/kg	6.02E+06
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	µg/kg	3.3
100-D-28:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	µg/kg	2,592
100-D-28:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	µg/kg	63,110
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	12
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	21
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	20
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	16
100-D-28:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	µg/kg	44
100-D-28:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	µg/kg	1,500
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	µg/kg	79
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	µg/kg	8,532
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	µg/kg	48
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	µg/kg	8,475
100-D-28:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	µg/kg	15,937
100-D-28:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	µg/kg	28
100-D-28:1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	237
100-D-28:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	41
100-D-28:1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	µg/kg	1.99E+07
100-D-28:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	µg/kg	4,780
100-D-28:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	µg/kg	290,098
100-D-28:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	µg/kg	8.4
100-D-28:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	340
100-D-28:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	µg/kg	10,462
100-D-28:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	µg/kg	100
100-D-28:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	µg/kg	43,439
100-D-28:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	µg/kg	38,595
100-D-29_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	686
100-D-29_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,302
100-D-29_Overburden	non-Rad	Barium	7440-39-3	µg/kg	62,796
100-D-29_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	356
100-D-29_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,128
100-D-29_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	7,050
100-D-29_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,731
100-D-29_Overburden	non-Rad	Lead	7439-92-1	µg/kg	2,763
100-D-29_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	297,023
100-D-29_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	7.4
100-D-29_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	260
100-D-29_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	9,804
100-D-29_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	494
100-D-29_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	65,107
100-D-29_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	42,897
100-D-29_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.14
100-D-29_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.014
100-D-29_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.15
100-D-29_Overburden	Rad	Uranium-238	U-238	pCi/g	0.17
100-D-29_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	618

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-29_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,843
100-D-29_Shallow	non-Rad	Barium	7440-39-3	µg/kg	67,887
100-D-29_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	240
100-D-29_Shallow	non-Rad	Boron	7440-42-8	µg/kg	5,333
100-D-29_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	49
100-D-29_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	8,317
100-D-29_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,282
100-D-29_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,051
100-D-29_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	292,330
100-D-29_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	10
100-D-29_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	290
100-D-29_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,777
100-D-29_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	853
100-D-29_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	60,569
100-D-29_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	40,906
100-D-29_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.084
100-D-29_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.014
100-D-29_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.26
100-D-29_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.029
100-D-29_Shallow	Rad	Uranium-238	U-238	pCi/g	0.29
100-D-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	400
100-D-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,300
100-D-29_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	49,000
100-D-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	270
100-D-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	8,200
100-D-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	5,800
100-D-29_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,300
100-D-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	270,000
100-D-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	8,600
100-D-29_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	287
100-D-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	44,000
100-D-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	33,000
100-D-29_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.034
100-D-29_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.081
100-D-29_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.096
100-D-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	50
100-D-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.13
100-D-3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.11
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Acetone	67-64-1	µg/kg	6.7
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	6.58E+06
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aroclor-1254	11097-69-1	µg/kg	9.8
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,953
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Barium	7440-39-3	µg/kg	76,789
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	1.5
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	1.2
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	2.4
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	1.2
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	215
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Boron	7440-42-8	µg/kg	2,018
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	82
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	8,844
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	1.7
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,971
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Copper	7440-50-8	µg/kg	15,458
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	4.6
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	900
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	2.8
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.08E+07
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,626
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	318,306
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	13
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Methylene chloride	75-09-2	µg/kg	3.4
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	386
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	10,377
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrate	14797-55-8	µg/kg	4,032
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	710
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	5.7
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	9,120
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,757
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	58,650
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	44,390
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.66
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.59
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	18
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acetone	67-64-1	µg/kg	4.3
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.94E+06
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	3.0
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	659
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	16
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	11
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,936
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	81,896
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	9.0
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	9.9
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	12
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	8.3
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	223
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Boron	7440-42-8	µg/kg	2,139
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	95
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,620
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	8.9
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	9,241
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Copper	7440-50-8	µg/kg	17,019
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	2.4
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	31
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	3.3

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	205
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	17
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.54E+07
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,510
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	350,952
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	10
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	3.9
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	451
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	10,623
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrate	14797-55-8	µg/kg	45,530
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrite	14797-65-0	µg/kg	1,800
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	8,617
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	10
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Silver	7440-22-4	µg/kg	174
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	22,432
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,861
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	69,961
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	50,886
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.64
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63
100-D-31:10_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.48
100-D-31:10_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	6.76E+06
100-D-31:10_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,618
100-D-31:10_Overburden	non-Rad	Barium	7440-39-3	µg/kg	67,626
100-D-31:10_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	103
100-D-31:10_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,283
100-D-31:10_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	99
100-D-31:10_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	7,762
100-D-31:10_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,309
100-D-31:10_Overburden	non-Rad	Copper	7440-50-8	µg/kg	15,563
100-D-31:10_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	1,219
100-D-31:10_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	412
100-D-31:10_Overburden	non-Rad	Iron	7439-89-6	µg/kg	1.99E+07
100-D-31:10_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,692
100-D-31:10_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	289,763
100-D-31:10_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	16
100-D-31:10_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	290
100-D-31:10_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	9,988
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,040
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	µg/kg	400
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	880
100-D-31:10_Overburden	non-Rad	Phenol	108-95-2	µg/kg	29
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,978
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	5,361
100-D-31:10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	713
100-D-31:10_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	41,549
100-D-31:10_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	36,532
100-D-31:10_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	20
100-D-31:10_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36
100-D-31:10_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.24
100-D-31:10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.25
100-D-31:10_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	2.2
100-D-31:10_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	1.4
100-D-31:10_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	5.99E+06
100-D-31:10_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,721
100-D-31:10_Shallow	non-Rad	Barium	7440-39-3	µg/kg	60,424
100-D-31:10_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	92
100-D-31:10_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,400
100-D-31:10_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	162
100-D-31:10_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	7,199
100-D-31:10_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	9,426
100-D-31:10_Shallow	non-Rad	Copper	7440-50-8	µg/kg	16,570
100-D-31:10_Shallow	non-Rad	Fluoride	16984-48-8	µg/kg	1,476
100-D-31:10_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.33E+07
100-D-31:10_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,201
100-D-31:10_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	310,285
100-D-31:10_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	9.4
100-D-31:10_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	250
100-D-31:10_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,326
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	7,582
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	13,545
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,000
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	5,700
100-D-31:10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	588
100-D-31:10_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	65,877
100-D-31:10_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	45,510
100-D-31:10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.068
100-D-31:10_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.18
100-D-31:10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20
100-D-31:10_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.71
100-D-31:10_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.61E+06
100-D-31:10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,500
100-D-31:10_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	64,600
100-D-31:10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	33
100-D-31:10_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	91
100-D-31:10_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,800
100-D-31:10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	180
100-D-31:10_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	6,900
100-D-31:10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,200
100-D-31:10_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,300
100-D-31:10_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	1,400
100-D-31:10_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.21E+07
100-D-31:10_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	3,800
100-D-31:10_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	318,000
100-D-31:10_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	5.8
100-D-31:10_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,300

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-31:5_Shallow	non-Rad	Nitrate	14797-55-8	µg/kg	46,047
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	µg/kg	1,500
100-D-31:5_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	54,696
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	89,617
100-D-31:6_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.30
100-D-31:6_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	556
100-D-31:6_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	3,551
100-D-31:6_Overburden	non-Rad	Barium	7440-39-3	µg/kg	110,920
100-D-31:6_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	1,380
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	µg/kg	5,998
100-D-31:6_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	60
100-D-31:6_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	9,736
100-D-31:6_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	14
100-D-31:6_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,947
100-D-31:6_Overburden	non-Rad	Copper	7440-50-8	µg/kg	24,687
100-D-31:6_Overburden	non-Rad	Dieldrin	60-57-1	µg/kg	3.0
100-D-31:6_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	1,709
100-D-31:6_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	µg/kg	1.0
100-D-31:6_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	607
100-D-31:6_Overburden	non-Rad	Lead	7439-92-1	µg/kg	7,537
100-D-31:6_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	355,498
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	870
100-D-31:6_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	326
100-D-31:6_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	11,583
100-D-31:6_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	3,654
100-D-31:6_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	66,499
100-D-31:6_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	65,614
100-D-31:6_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	800
100-D-31:6_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,998
100-D-31:6_Shallow	non-Rad	Barium	7440-39-3	µg/kg	105,118
100-D-31:6_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	8.0
100-D-31:6_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	1,274
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	µg/kg	5,860
100-D-31:6_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	103
100-D-31:6_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,798
100-D-31:6_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	9.3
100-D-31:6_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	9,066
100-D-31:6_Shallow	non-Rad	Copper	7440-50-8	µg/kg	26,377
100-D-31:6_Shallow	non-Rad	Fluoride	16984-48-8	µg/kg	1,172
100-D-31:6_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	363
100-D-31:6_Shallow	non-Rad	Lead	7439-92-1	µg/kg	8,354
100-D-31:6_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	330,083
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	577
100-D-31:6_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	460
100-D-31:6_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	12,585
100-D-31:6_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	6,985
100-D-31:6_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	65,023
100-D-31:6_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	63,960
100-D-31:7_Overburden	non-Rad	2-Butanone	78-93-3	µg/kg	2.0
100-D-31:7_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.67
100-D-31:7_Overburden	non-Rad	Acetone	67-64-1	µg/kg	13
100-D-31:7_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	5.17E+06
100-D-31:7_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	404
100-D-31:7_Overburden	non-Rad	Aroclor-1260	11096-82-5	µg/kg	8.2
100-D-31:7_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	1,862
100-D-31:7_Overburden	non-Rad	Barium	7440-39-3	µg/kg	66,232
100-D-31:7_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	4.0
100-D-31:7_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	1,700
100-D-31:7_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	73
100-D-31:7_Overburden	non-Rad	Boron	7440-42-8	µg/kg	2,305
100-D-31:7_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	46
100-D-31:7_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	6,038
100-D-31:7_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,775
100-D-31:7_Overburden	non-Rad	Copper	7440-50-8	µg/kg	20,400
100-D-31:7_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	1,300
100-D-31:7_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.48E+07
100-D-31:7_Overburden	non-Rad	Lead	7439-92-1	µg/kg	2,665
100-D-31:7_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	304,518
100-D-31:7_Overburden	non-Rad	Methylene chloride	75-09-2	µg/kg	2.4
100-D-31:7_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	514
100-D-31:7_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	9,125
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	939
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	687
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,767
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	3,876
100-D-31:7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	472
100-D-31:7_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	66,619
100-D-31:7_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	42,804
100-D-31:7_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.11
100-D-31:7_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.16
100-D-31:7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.16
100-D-31:7_Shallow	non-Rad	2-Butanone	78-93-3	µg/kg	1.8
100-D-31:7_Shallow	non-Rad	Acetone	67-64-1	µg/kg	8.0
100-D-31:7_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	4.77E+06
100-D-31:7_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	1,391
100-D-31:7_Shallow	non-Rad	Barium	7440-39-3	µg/kg	66,248
100-D-31:7_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	1,500
100-D-31:7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	68
100-D-31:7_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	7,234
100-D-31:7_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	10,431
100-D-31:7_Shallow	non-Rad	Copper	7440-50-8	µg/kg	17,912
100-D-31:7_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.76E+07
100-D-31:7_Shallow	non-Rad	Lead	7439-92-1	µg/kg	1,794
100-D-31:7_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	335,983
100-D-31:7_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	92
100-D-31:7_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	2.2

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-31:7_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	260
100-D-31:7_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,657
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	696
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,459
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	900
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	1,100
100-D-31:7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	324
100-D-31:7_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	80,980
100-D-31:7_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	48,513
100-D-31:7_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.11
100-D-31:7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.11
100-D-31:7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	4.73E+06
100-D-31:7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,000
100-D-31:7_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	75,300
100-D-31:7_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	63
100-D-31:7_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,500
100-D-31:7_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	5,900
100-D-31:7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	10,600
100-D-31:7_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	17,900
100-D-31:7_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.69E+07
100-D-31:7_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	1,800
100-D-31:7_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	340,000
100-D-31:7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	230
100-D-31:7_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,400
100-D-31:7_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	700
100-D-31:7_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	363
100-D-31:7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	79,500
100-D-31:7_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	48,100
100-D-31:7_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.17
100-D-31:7_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.12
100-D-31:8_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	5.73E+06
100-D-31:8_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	1,796
100-D-31:8_Overburden	non-Rad	Barium	7440-39-3	µg/kg	74,527
100-D-31:8_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	9.0
100-D-31:8_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	7.0
100-D-31:8_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,200
100-D-31:8_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	49
100-D-31:8_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	7,017
100-D-31:8_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	13
100-D-31:8_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,458
100-D-31:8_Overburden	non-Rad	Copper	7440-50-8	µg/kg	15,323
100-D-31:8_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	1,168
100-D-31:8_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	332
100-D-31:8_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.46E+07
100-D-31:8_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,584
100-D-31:8_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	339,535
100-D-31:8_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	7.8
100-D-31:8_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	480
100-D-31:8_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	10,368
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,023
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	783
100-D-31:8_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	1,917
100-D-31:8_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	839
100-D-31:8_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	64,672
100-D-31:8_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	44,758
100-D-31:8_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.92
100-D-31:8_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.26
100-D-31:8_Overburden	Rad	Uranium-238	U-238	pCi/g	0.28
100-D-31:8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.63
100-D-31:8_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	5.11E+06
100-D-31:8_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,205
100-D-31:8_Shallow	non-Rad	Barium	7440-39-3	µg/kg	62,186
100-D-31:8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	5.9
100-D-31:8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	12
100-D-31:8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	12
100-D-31:8_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	6.9
100-D-31:8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	103
100-D-31:8_Shallow	non-Rad	Boron	7440-42-8	µg/kg	940
100-D-31:8_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	71
100-D-31:8_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	5,290
100-D-31:8_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	9.2
100-D-31:8_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,016
100-D-31:8_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,311
100-D-31:8_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	17
100-D-31:8_Shallow	non-Rad	Fluoride	16984-48-8	µg/kg	1,850
100-D-31:8_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.21E+07
100-D-31:8_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,024
100-D-31:8_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	312,190
100-D-31:8_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	9.6
100-D-31:8_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	630
100-D-31:8_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	8,943
100-D-31:8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	563
100-D-31:8_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	27
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,700
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	2,100
100-D-31:8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	516
100-D-31:8_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	48,087
100-D-31:8_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	38,019
100-D-31:8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.19
100-D-31:8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.19
100-D-31:8_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	µg/kg	4.66E+06
100-D-31:8_Shallow_Focused_1	non-Rad	Antimony	7440-36-0	µg/kg	446
100-D-31:8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	µg/kg	1,890
100-D-31:8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	µg/kg	70,500
100-D-31:8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	µg/kg	169
100-D-31:8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	µg/kg	65

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-31:8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	µg/kg	6,790
100-D-31:8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	µg/kg	9,000
100-D-31:8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	µg/kg	16,200
100-D-31:8_Shallow_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	190
100-D-31:8_Shallow_Focused_1	non-Rad	Iron	7439-89-6	µg/kg	2.81E+07
100-D-31:8_Shallow_Focused_1	non-Rad	Isophorone	78-59-1	µg/kg	77
100-D-31:8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	µg/kg	2,510
100-D-31:8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	µg/kg	334,000
100-D-31:8_Shallow_Focused_1	non-Rad	Mercury	7439-97-6	µg/kg	26
100-D-31:8_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	µg/kg	502
100-D-31:8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	µg/kg	8,890
100-D-31:8_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	µg/kg	9,400
100-D-31:8_Shallow_Focused_1	non-Rad	Silver	7440-22-4	µg/kg	147
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	µg/kg	94,900
100-D-31:8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	µg/kg	51,800
100-D-31:8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	µg/kg	2.06E+07
100-D-31:8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	µg/kg	5,900
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	µg/kg	1.57E+06
100-D-31:8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	µg/kg	1,300
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	µg/kg	169,000
100-D-31:8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	µg/kg	430
100-D-31:8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	µg/kg	13,400
100-D-31:8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	µg/kg	9,900
100-D-31:8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	µg/kg	42,400
100-D-31:8_Shallow_Focused_2	non-Rad	Iron	7439-89-6	µg/kg	2.39E+07
100-D-31:8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	µg/kg	24,200
100-D-31:8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	µg/kg	368,000
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	µg/kg	120
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	µg/kg	2,300
100-D-31:8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	µg/kg	19,700
100-D-31:8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	µg/kg	67,200
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	µg/kg	83,000
100-D-31:9_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	31
100-D-31:9_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	12
100-D-31:9_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	5.04E+06
100-D-31:9_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	1,175
100-D-31:9_Overburden	non-Rad	Barium	7440-39-3	µg/kg	58,676
100-D-31:9_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	87
100-D-31:9_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	74
100-D-31:9_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	5,328
100-D-31:9_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,066
100-D-31:9_Overburden	non-Rad	Copper	7440-50-8	µg/kg	13,689
100-D-31:9_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	900
100-D-31:9_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.20E+07
100-D-31:9_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,029
100-D-31:9_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	292,130
100-D-31:9_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	7.6
100-D-31:9_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	360
100-D-31:9_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	9,187
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	652
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,300
100-D-31:9_Overburden	non-Rad	Phenol	108-95-2	µg/kg	24
100-D-31:9_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	2,800
100-D-31:9_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	773
100-D-31:9_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	52,680
100-D-31:9_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	39,155
100-D-31:9_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.23
100-D-31:9_Overburden	Rad	Uranium-238	U-238	pCi/g	0.29
100-D-31:9_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	4.84E+06
100-D-31:9_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,517
100-D-31:9_Shallow	non-Rad	Barium	7440-39-3	µg/kg	61,243
100-D-31:9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	47
100-D-31:9_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	14
100-D-31:9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	28
100-D-31:9_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	11
100-D-31:9_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	114
100-D-31:9_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,100
100-D-31:9_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	53
100-D-31:9_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	5,132
100-D-31:9_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	19
100-D-31:9_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,666
100-D-31:9_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,871
100-D-31:9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	222
100-D-31:9_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	12
100-D-31:9_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.27E+07
100-D-31:9_Shallow	non-Rad	Lead	7439-92-1	µg/kg	2,853
100-D-31:9_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	318,748
100-D-31:9_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	6.6
100-D-31:9_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	260
100-D-31:9_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	8,678
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	607
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	690
100-D-31:9_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	70
100-D-31:9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	735
100-D-31:9_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	57,014
100-D-31:9_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	40,433
100-D-31:9_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.17
100-D-31:9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.25
100-D-32_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	833
100-D-32_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	3,245
100-D-32_Overburden	non-Rad	Barium	7440-39-3	µg/kg	74,480
100-D-32_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	225
100-D-32_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,234
100-D-32_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	200
100-D-32_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	11,852
100-D-32_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,061

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-32_Overburden	non-Rad	Copper	7440-50-8	µg/kg	18,183
100-D-32_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,836
100-D-32_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	369,294
100-D-32_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	549
100-D-32_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	12,365
100-D-32_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,762
100-D-32_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	76,983
100-D-32_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	51,821
100-D-32_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.61
100-D-32_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.043
100-D-32_Overburden	Rad	Uranium-238	U-238	pCi/g	0.59
100-D-32_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	826
100-D-32_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,499
100-D-32_Shallow	non-Rad	Barium	7440-39-3	µg/kg	68,887
100-D-32_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	694
100-D-32_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,505
100-D-32_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	200
100-D-32_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,447
100-D-32_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,970
100-D-32_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,997
100-D-32_Shallow	non-Rad	Lead	7439-92-1	µg/kg	5,774
100-D-32_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	356,899
100-D-32_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	568
100-D-32_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	12,033
100-D-32_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,466
100-D-32_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	76,249
100-D-32_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	62,123
100-D-32_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.10
100-D-32_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0
100-D-32_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50
100-D-32_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.14
100-D-32_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49
100-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	3,274
100-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.13
100-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	1.1
100-D-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	71
100-D-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	120
100-D-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	199
100-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,831
100-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12
100-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28
100-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.13
100-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	5.67E+06
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	393
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,340
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Barium	7440-39-3	µg/kg	61,074
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	233
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Boron	7440-42-8	µg/kg	929
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	101
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	9,297
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,359
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Copper	7440-50-8	µg/kg	26,641
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,752
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	316,433
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	20
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	513
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	10,120
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Selenium	7782-49-2	µg/kg	700
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	63,875
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	43,856
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	5.30E+06
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	456
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	1,740
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Barium	7440-39-3	µg/kg	60,900
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	242
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,181
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	91
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	7,963
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,682
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	µg/kg	90,384
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,745
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	313,773
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	14
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	520
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,516
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	69,326
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	59,192
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.16
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.062
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.54E+06
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,000
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	59,000
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	100
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	660
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	160
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	7,800
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,700
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,500
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	1.9
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	3,200
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	335,000
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	10
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	530
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,200
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	77,900

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	55,000
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.64
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.2
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	464
100-D-47_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	789
100-D-47_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	3,159
100-D-47_Overburden	non-Rad	Barium	7440-39-3	µg/kg	74,847
100-D-47_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	225
100-D-47_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,497
100-D-47_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	200
100-D-47_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	11,948
100-D-47_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,295
100-D-47_Overburden	non-Rad	Copper	7440-50-8	µg/kg	15,504
100-D-47_Overburden	non-Rad	Lead	7439-92-1	µg/kg	4,065
100-D-47_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	342,771
100-D-47_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	11
100-D-47_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	492
100-D-47_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	12,406
100-D-47_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,713
100-D-47_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	68,752
100-D-47_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	45,248
100-D-47_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.0
100-D-47_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.64
100-D-47_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.055
100-D-47_Overburden	Rad	Uranium-238	U-238	pCi/g	0.57
100-D-47_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,157
100-D-47_Shallow	non-Rad	Barium	7440-39-3	µg/kg	74,542
100-D-47_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	510
100-D-47_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,317
100-D-47_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	225
100-D-47_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,828
100-D-47_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,982
100-D-47_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,445
100-D-47_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,018
100-D-47_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	338,839
100-D-47_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	501
100-D-47_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,351
100-D-47_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,694
100-D-47_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	70,090
100-D-47_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	49,435
100-D-47_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.090
100-D-47_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.60
100-D-47_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18
100-D-47_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.2
100-D-47_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.93
100-D-47_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61
100-D-47_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.039
100-D-47_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57
100-D-47_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	700
100-D-47_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,300
100-D-47_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	69,600
100-D-47_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	300
100-D-47_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,700
100-D-47_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	200
100-D-47_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,300
100-D-47_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,500
100-D-47_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,100
100-D-47_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	320
100-D-47_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	5,100
100-D-47_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	360,000
100-D-47_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	500
100-D-47_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,300
100-D-47_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,551
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	85,700
100-D-47_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	55,300
100-D-47_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.69
100-D-47_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.13
100-D-47_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.5
100-D-47_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	36
100-D-47_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.2
100-D-47_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.54
100-D-47_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.52
100-D-48:1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	5,010
100-D-48:1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,794
100-D-48:1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.26
100-D-48:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	30
100-D-48:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	8.1
100-D-48:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	64
100-D-48:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	4.8
100-D-48:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.51
100-D-48:1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.68
100-D-48:1_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.69
100-D-48:1_Deep	Rad	Uranium-238	U-238	pCi/g	0.60
100-D-48:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	643
100-D-48:1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,223
100-D-48:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.27
100-D-48:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.31
100-D-48:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20
100-D-48:1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50
100-D-48:1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.41
100-D-48:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,488
100-D-48:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.8
100-D-48:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.39
100-D-48:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	3.2
100-D-48:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.53
100-D-48:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.077

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-48:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8
100-D-48:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.48
100-D-48:2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.064
100-D-48:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.50
100-D-48:2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	608
100-D-48:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,415
100-D-48:2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.091
100-D-48:2_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.055
100-D-48:2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.11
100-D-48:2_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.025
100-D-48:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.48
100-D-48:2_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.035
100-D-48:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.48
100-D-48:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,496
100-D-48:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.89
100-D-48:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.096
100-D-48:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.56
100-D-48:2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20
100-D-48:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.046
100-D-48:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.18
100-D-48:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51
100-D-48:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.030
100-D-48:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50
100-D-48:3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	587
100-D-48:3_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,230
100-D-48:3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.7
100-D-48:3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.049
100-D-48:3_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.67
100-D-48:3_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.071
100-D-48:3_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.19
100-D-48:3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8
100-D-48:3_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47
100-D-48:3_Deep	Rad	Uranium-238	U-238	pCi/g	0.41
100-D-48:3_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,278
100-D-48:3_Overburden	Rad	Americium-241	14596-10-2	pCi/g	0.052
100-D-48:3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.21
100-D-48:3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.040
100-D-48:3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.25
100-D-48:3_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	0.37
100-D-48:3_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.4
100-D-48:3_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47
100-D-48:3_Overburden	Rad	Uranium-238	U-238	pCi/g	0.43
100-D-48:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	802
100-D-48:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,499
100-D-48:3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.053
100-D-48:3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.78
100-D-48:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.13
100-D-48:3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.061
100-D-48:3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7
100-D-48:3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51
100-D-48:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50
100-D-48:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,900
100-D-48:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,596
100-D-48:4_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.029
100-D-48:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.44
100-D-48:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.043
100-D-48:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28
100-D-48:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.028
100-D-48:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.44
100-D-48:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.49
100-D-48:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.54
100-D-49:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,300
100-D-49:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,717
100-D-49:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	62
100-D-49:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.6
100-D-49:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	24
100-D-49:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.9
100-D-49:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.26
100-D-49:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7
100-D-49:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.52
100-D-49:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.58
100-D-49:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,063
100-D-49:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20
100-D-49:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.24
100-D-49:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.43
100-D-49:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.089
100-D-49:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.36
100-D-49:3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,762
100-D-49:3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.52
100-D-49:3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.59
100-D-49:4_Deep	non-Rad	Lead	7439-92-1	µg/kg	5,638
100-D-49:4_Deep	non-Rad	Mercury	7439-97-6	µg/kg	42
100-D-49:4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,348
100-D-49:4_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.040
100-D-49:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.1
100-D-49:4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.26
100-D-49:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	8.3
100-D-49:4_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1
100-D-49:4_Deep	Rad	Nickel-63	13981-37-8	pCi/g	3.0
100-D-49:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22
100-D-49:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53
100-D-49:4_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47
100-D-49:4_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.074
100-D-49:4_Deep	Rad	Uranium-238	U-238	pCi/g	0.45
100-D-49:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	170
100-D-49:4_Shallow	non-Rad	Lead	7439-92-1	µg/kg	21,359

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-49:4_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	33
100-D-49:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,458
100-D-49:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.45
100-D-49:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.058
100-D-49:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5
100-D-49:4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20
100-D-49:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068
100-D-49:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48
100-D-49:4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.054
100-D-49:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49
100-D-50:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	4.37E+06
100-D-50:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,500
100-D-50:5_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	69,600
100-D-50:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	419
100-D-50:5_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	811
100-D-50:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	88
100-D-50:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	7,400
100-D-50:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,400
100-D-50:5_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,500
100-D-50:5_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.65E+07
100-D-50:5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	3,500
100-D-50:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	271,000
100-D-50:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	243
100-D-50:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,200
100-D-50:5_Shallow_Focused	non-Rad	Uranium	7440-61-1	µg/kg	1.5
100-D-50:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	34,900
100-D-50:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	32,900
100-D-52_Shallow	non-Rad	Barium	7440-39-3	µg/kg	68,900
100-D-52_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	7,400
100-D-52_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,300
100-D-52_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,646
100-D-52_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.065
100-D-52_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.36
100-D-52_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51
100-D-52_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55
100-D-56:1_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	1,200
100-D-56:1_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	3,522
100-D-56:1_Overburden	non-Rad	Barium	7440-39-3	µg/kg	70,319
100-D-56:1_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	570
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	µg/kg	5,633
100-D-56:1_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	189
100-D-56:1_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	10,204
100-D-56:1_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,320
100-D-56:1_Overburden	non-Rad	Copper	7440-50-8	µg/kg	16,174
100-D-56:1_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	3,300
100-D-56:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	271
100-D-56:1_Overburden	non-Rad	Lead	7439-92-1	µg/kg	9,649
100-D-56:1_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	327,758
100-D-56:1_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	75
100-D-56:1_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	950
100-D-56:1_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	11,053
100-D-56:1_Overburden	non-Rad	Nitrate	14797-55-8	µg/kg	22,648
100-D-56:1_Overburden	non-Rad	Nitrite	14797-65-0	µg/kg	4,080
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	µg/kg	2,100
100-D-56:1_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	58,593
100-D-56:1_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	66,962
100-D-56:1_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	1,100
100-D-56:1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,560
100-D-56:1_Shallow	non-Rad	Barium	7440-39-3	µg/kg	59,734
100-D-56:1_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	496
100-D-56:1_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,600
100-D-56:1_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	195
100-D-56:1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,457
100-D-56:1_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,300
100-D-56:1_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,186
100-D-56:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	280
100-D-56:1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,080
100-D-56:1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	290,501
100-D-56:1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	20
100-D-56:1_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	10,800
100-D-56:1_Shallow	non-Rad	Nitrate	14797-55-8	µg/kg	29,400
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	µg/kg	1,700
100-D-56:1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	49,162
100-D-56:1_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	52,499
100-D-56:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	1,000
100-D-56:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,200
100-D-56:1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	60,900
100-D-56:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	550
100-D-56:1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,800
100-D-56:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,800
100-D-56:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,600
100-D-56:1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,600
100-D-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	280
100-D-56:1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	5,000
100-D-56:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	339,000
100-D-56:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	10
100-D-56:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	13,100
100-D-56:1_Shallow_Focused	non-Rad	Nitrate	14797-55-8	µg/kg	8,830
100-D-56:1_Shallow_Focused	non-Rad	Silver	7440-22-4	µg/kg	240
100-D-56:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	51,100
100-D-56:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	45,900
100-D-56:2_Overburden_4	non-Rad	Antimony	7440-36-0	µg/kg	500
100-D-56:2_Overburden_4	non-Rad	Arsenic	7440-38-2	µg/kg	3,421
100-D-56:2_Overburden_4	non-Rad	Barium	7440-39-3	µg/kg	71,232
100-D-56:2_Overburden_4	non-Rad	Beryllium	7440-41-7	µg/kg	984
100-D-56:2_Overburden_4	non-Rad	Boron	7440-42-8	µg/kg	1,250

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-56:2_Overburden_4	non-Rad	Cadmium	7440-43-9	µg/kg	121
100-D-56:2_Overburden_4	non-Rad	Chromium	7440-47-3	µg/kg	17,678
100-D-56:2_Overburden_4	non-Rad	Cobalt	7440-48-4	µg/kg	7,597
100-D-56:2_Overburden_4	non-Rad	Copper	7440-50-8	µg/kg	15,676
100-D-56:2_Overburden_4	non-Rad	Fluoride	16984-48-8	µg/kg	1,700
100-D-56:2_Overburden_4	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	371
100-D-56:2_Overburden_4	non-Rad	Lead	7439-92-1	µg/kg	4,232
100-D-56:2_Overburden_4	non-Rad	Manganese	7439-96-5	µg/kg	311,404
100-D-56:2_Overburden_4	non-Rad	Mercury	7439-97-6	µg/kg	11
100-D-56:2_Overburden_4	non-Rad	Molybdenum	7439-98-7	µg/kg	350
100-D-56:2_Overburden_4	non-Rad	Nickel	7440-02-0	µg/kg	11,138
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,188
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrite	NO2-N	µg/kg	638
100-D-56:2_Overburden_4	non-Rad	Vanadium	7440-62-2	µg/kg	56,980
100-D-56:2_Overburden_4	non-Rad	Zinc	7440-66-6	µg/kg	56,993
100-D-56:2_Overburden_5	non-Rad	Arsenic	7440-38-2	µg/kg	2,947
100-D-56:2_Overburden_5	non-Rad	Barium	7440-39-3	µg/kg	67,670
100-D-56:2_Overburden_5	non-Rad	Beryllium	7440-41-7	µg/kg	1,271
100-D-56:2_Overburden_5	non-Rad	Boron	7440-42-8	µg/kg	1,407
100-D-56:2_Overburden_5	non-Rad	Cadmium	7440-43-9	µg/kg	86
100-D-56:2_Overburden_5	non-Rad	Chromium	7440-47-3	µg/kg	16,179
100-D-56:2_Overburden_5	non-Rad	Cobalt	7440-48-4	µg/kg	7,547
100-D-56:2_Overburden_5	non-Rad	Copper	7440-50-8	µg/kg	15,393
100-D-56:2_Overburden_5	non-Rad	Fluoride	16984-48-8	µg/kg	1,091
100-D-56:2_Overburden_5	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	223
100-D-56:2_Overburden_5	non-Rad	Lead	7439-92-1	µg/kg	4,438
100-D-56:2_Overburden_5	non-Rad	Manganese	7439-96-5	µg/kg	306,866
100-D-56:2_Overburden_5	non-Rad	Mercury	7439-97-6	µg/kg	21
100-D-56:2_Overburden_5	non-Rad	Nickel	7440-02-0	µg/kg	10,692
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,535
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrite	NO2-N	µg/kg	492
100-D-56:2_Overburden_5	non-Rad	Vanadium	7440-62-2	µg/kg	52,528
100-D-56:2_Overburden_5	non-Rad	Zinc	7440-66-6	µg/kg	41,330
100-D-56:2_Overburden_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	493
100-D-56:2_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	µg/kg	4,000
100-D-56:2_Overburden_Focused_2	non-Rad	Barium	7440-39-3	µg/kg	65,000
100-D-56:2_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	µg/kg	1,400
100-D-56:2_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	µg/kg	11,000
100-D-56:2_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	µg/kg	8,300
100-D-56:2_Overburden_Focused_2	non-Rad	Copper	7440-50-8	µg/kg	16,000
100-D-56:2_Overburden_Focused_2	non-Rad	Fluoride	16984-48-8	µg/kg	3,400
100-D-56:2_Overburden_Focused_2	non-Rad	Lead	7439-92-1	µg/kg	4,200
100-D-56:2_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	µg/kg	310,000
100-D-56:2_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	µg/kg	280
100-D-56:2_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	µg/kg	11,000
100-D-56:2_Overburden_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,300
100-D-56:2_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	µg/kg	60,000
100-D-56:2_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	µg/kg	42,000
100-D-56:2_Shallow_1	non-Rad	Antimony	7440-36-0	µg/kg	420
100-D-56:2_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,208
100-D-56:2_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	62,220
100-D-56:2_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	405
100-D-56:2_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,525
100-D-56:2_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	65
100-D-56:2_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	10,824
100-D-56:2_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	7,636
100-D-56:2_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	14,188
100-D-56:2_Shallow_1	non-Rad	Fluoride	16984-48-8	µg/kg	1,750
100-D-56:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	244
100-D-56:2_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	3,872
100-D-56:2_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	306,134
100-D-56:2_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	9.7
100-D-56:2_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	10,388
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	903
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrite	NO2-N	µg/kg	513
100-D-56:2_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	56,966
100-D-56:2_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	41,375
100-D-56:2_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	3,810
100-D-56:2_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	59,234
100-D-56:2_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	328
100-D-56:2_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,100
100-D-56:2_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	84
100-D-56:2_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	12,515
100-D-56:2_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	6,536
100-D-56:2_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	13,635
100-D-56:2_Shallow_2	non-Rad	Fluoride	16984-48-8	µg/kg	1,708
100-D-56:2_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	3,414
100-D-56:2_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	281,887
100-D-56:2_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	9.0
100-D-56:2_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	11,048
100-D-56:2_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	3,478
100-D-56:2_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	45,416
100-D-56:2_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	36,899
100-D-56:2_Shallow_3	non-Rad	Arsenic	7440-38-2	µg/kg	3,170
100-D-56:2_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg	67,570
100-D-56:2_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg	1,164
100-D-56:2_Shallow_3	non-Rad	Boron	7440-42-8	µg/kg	1,605
100-D-56:2_Shallow_3	non-Rad	Cadmium	7440-43-9	µg/kg	96
100-D-56:2_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg	9,261
100-D-56:2_Shallow_3	non-Rad	Cobalt	7440-48-4	µg/kg	8,173
100-D-56:2_Shallow_3	non-Rad	Copper	7440-50-8	µg/kg	15,431
100-D-56:2_Shallow_3	non-Rad	Fluoride	16984-48-8	µg/kg	1,431
100-D-56:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	659
100-D-56:2_Shallow_3	non-Rad	Lead	7439-92-1	µg/kg	5,446
100-D-56:2_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg	322,267
100-D-56:2_Shallow_3	non-Rad	Mercury	7439-97-6	µg/kg	11

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-56:2_Shallow_3	non-Rad	Nickel	7440-02-0	µg/kg	10,049
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,431
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrite	NO2-N	µg/kg	675
100-D-56:2_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg	64,762
100-D-56:2_Shallow_3	non-Rad	Zinc	7440-66-6	µg/kg	46,651
100-D-56:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.92E+06
100-D-56:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	390
100-D-56:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,200
100-D-56:2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	70,500
100-D-56:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	140
100-D-56:2_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,000
100-D-56:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	93
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	29,300
100-D-56:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,300
100-D-56:2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,800
100-D-56:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	662
100-D-56:2_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.23E+07
100-D-56:2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,700
100-D-56:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	300,000
100-D-56:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	7.9
100-D-56:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	300
100-D-56:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,600
100-D-56:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	57,900
100-D-56:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	39,400
100-D-56:2_Staging pile area footprint_focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,600
100-D-56:2_Staging pile area footprint_focused	non-Rad	Barium	7440-39-3	µg/kg	79,000
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	84
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	100
100-D-56:2_Staging pile area footprint_focused	non-Rad	Beryllium	7440-41-7	µg/kg	490
100-D-56:2_Staging pile area footprint_focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	82
100-D-56:2_Staging pile area footprint_focused	non-Rad	Boron	7440-42-8	µg/kg	1,500
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cadmium	7440-43-9	µg/kg	88
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chromium	7440-47-3	µg/kg	11,000
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chrysene	218-01-9	µg/kg	29
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,500
100-D-56:2_Staging pile area footprint_focused	non-Rad	Copper	7440-50-8	µg/kg	15,000
100-D-56:2_Staging pile area footprint_focused	non-Rad	Lead	7439-92-1	µg/kg	4,400
100-D-56:2_Staging pile area footprint_focused	non-Rad	Manganese	7439-96-5	µg/kg	350,000
100-D-56:2_Staging pile area footprint_focused	non-Rad	Mercury	7439-97-6	µg/kg	9.7
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nickel	7440-02-0	µg/kg	11,000
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	590
100-D-56:2_Staging pile area footprint_focused	non-Rad	Pyrene	129-00-0	µg/kg	15
100-D-56:2_Staging pile area footprint_focused	non-Rad	Vanadium	7440-62-2	µg/kg	55,000
100-D-56:2_Staging pile area footprint_focused	non-Rad	Zinc	7440-66-6	µg/kg	44,000
100-D-61_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	1.3
100-D-61_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	5.2
100-D-61_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	491
100-D-61_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,006
100-D-61_Shallow	non-Rad	Barium	7440-39-3	µg/kg	158,794
100-D-61_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	16
100-D-61_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	3.5
100-D-61_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	5.5
100-D-61_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	3.6
100-D-61_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	865
100-D-61_Shallow	non-Rad	Boron	7440-42-8	µg/kg	11,172
100-D-61_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,565
100-D-61_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	15
100-D-61_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	9,407
100-D-61_Shallow	non-Rad	Copper	7440-50-8	µg/kg	17,831
100-D-61_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	1.5
100-D-61_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	24
100-D-61_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	2.6
100-D-61_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	169
100-D-61_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,459
100-D-61_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	347,567
100-D-61_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	13
100-D-61_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	516
100-D-61_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	12,720
100-D-61_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	43
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	µg/kg	1,040
100-D-61_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	11,436
100-D-61_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	63,682
100-D-61_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	45,816
100-D-7_Shallow_1	non-Rad	2-Butanone	78-93-3	µg/kg	1.7
100-D-7_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.86
100-D-7_Shallow_1	non-Rad	Acetone	67-64-1	µg/kg	15
100-D-7_Shallow_1	non-Rad	Alpha-BHC	319-84-6	µg/kg	5.0
100-D-7_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	4.66E+06
100-D-7_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	1,524
100-D-7_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	59,795
100-D-7_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	30
100-D-7_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	126
100-D-7_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,900
100-D-7_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	46
100-D-7_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	7,035
100-D-7_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	7,814
100-D-7_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	11,689
100-D-7_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	130
100-D-7_Shallow_1	non-Rad	Diethylphthalate	84-66-2	µg/kg	68
100-D-7_Shallow_1	non-Rad	Endosulfan II	33213-65-9	µg/kg	0.52
100-D-7_Shallow_1	non-Rad	Gamma-BHC (Lindane)	58-89-9	µg/kg	0.75
100-D-7_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	184
100-D-7_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	29
100-D-7_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	2.48E+07
100-D-7_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	3,490
100-D-7_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	290,472

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-7_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	6.5
100-D-7_Shallow_1	non-Rad	Methylene chloride	75-09-2	µg/kg	10
100-D-7_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	382
100-D-7_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	9,120
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	µg/kg	834
100-D-7_Shallow_1	non-Rad	Toluene	108-88-3	µg/kg	0.91
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,386
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	1,725
100-D-7_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	70,960
100-D-7_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	43,437
100-D-7_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.55
100-D-7_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.88
100-D-7_Shallow_2	non-Rad	Acetone	67-64-1	µg/kg	10
100-D-7_Shallow_2	non-Rad	Alpha-BHC	319-84-6	µg/kg	0.22
100-D-7_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	6.93E+06
100-D-7_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	2,073
100-D-7_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	81,723
100-D-7_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	142
100-D-7_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	90
100-D-7_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,533
100-D-7_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	85
100-D-7_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	9,024
100-D-7_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	8,015
100-D-7_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	11,766
100-D-7_Shallow_2	non-Rad	Endosulfan II	33213-65-9	µg/kg	0.59
100-D-7_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	µg/kg	0.85
100-D-7_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	236
100-D-7_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	2.36E+07
100-D-7_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	4,003
100-D-7_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	343,655
100-D-7_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	12
100-D-7_Shallow_2	non-Rad	Methylene chloride	75-09-2	µg/kg	2.2
100-D-7_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	353
100-D-7_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	9,973
100-D-7_Shallow_2	non-Rad	Silver	7440-22-4	µg/kg	410
100-D-7_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	1,700
100-D-7_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	63,913
100-D-7_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	46,279
100-D-7_Shallow_Focused	non-Rad	Acetone	67-64-1	µg/kg	6.3
100-D-7_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	µg/kg	5.0
100-D-7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.22E+06
100-D-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,900
100-D-7_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	69,300
100-D-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	180
100-D-7_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,200
100-D-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	63
100-D-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,000
100-D-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,600
100-D-7_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,400
100-D-7_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.33E+07
100-D-7_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	3,300
100-D-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	303,000
100-D-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	8.8
100-D-7_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	10
100-D-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,600
100-D-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	63,200
100-D-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	42,000
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.82
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	2.6
100-D-7_Staging pile area footprint	non-Rad	Acetone	67-64-1	µg/kg	6.2
100-D-7_Staging pile area footprint	non-Rad	Aluminum	7429-90-5	µg/kg	6.18E+06
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1248	12672-29-6	µg/kg	100
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1254	11097-69-1	µg/kg	7.9
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1260	11096-82-5	µg/kg	49
100-D-7_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	µg/kg	1,625
100-D-7_Staging pile area footprint	non-Rad	Barium	7440-39-3	µg/kg	72,000
100-D-7_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	µg/kg	155
100-D-7_Staging pile area footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	1,100
100-D-7_Staging pile area footprint	non-Rad	Boron	7440-42-8	µg/kg	1,719
100-D-7_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	µg/kg	103
100-D-7_Staging pile area footprint	non-Rad	Chromium	7440-47-3	µg/kg	8,443
100-D-7_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	µg/kg	6,081
100-D-7_Staging pile area footprint	non-Rad	Copper	7440-50-8	µg/kg	16,451
100-D-7_Staging pile area footprint	non-Rad	Diethylphthalate	84-66-2	µg/kg	452
100-D-7_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	285
100-D-7_Staging pile area footprint	non-Rad	Iron	7439-89-6	µg/kg	1.62E+07
100-D-7_Staging pile area footprint	non-Rad	Lead	7439-92-1	µg/kg	5,630
100-D-7_Staging pile area footprint	non-Rad	Manganese	7439-96-5	µg/kg	279,739
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	µg/kg	304
100-D-7_Staging pile area footprint	non-Rad	Methylene chloride	75-09-2	µg/kg	1.7
100-D-7_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	340
100-D-7_Staging pile area footprint	non-Rad	Nickel	7440-02-0	µg/kg	9,889
100-D-7_Staging pile area footprint	non-Rad	Silver	7440-22-4	µg/kg	710
100-D-7_Staging pile area footprint	non-Rad	Toluene	108-88-3	µg/kg	0.72
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	2,152
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	4,699
100-D-7_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	µg/kg	34,102
100-D-7_Staging pile area footprint	non-Rad	Xylenes (total)	1330-20-7	µg/kg	1.0
100-D-7_Staging pile area footprint	non-Rad	Zinc	7440-66-6	µg/kg	40,486
100-D-7_Staging pile area footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.056
100-D-70_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.30E+06
100-D-70_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,800
100-D-70_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	99,000
100-D-70_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	250
100-D-70_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	130
100-D-70_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,800

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-70_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,500
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	73,900
100-D-70_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.53E+07
100-D-70_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	7,300
100-D-70_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	340,000
100-D-70_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	3.7
100-D-70_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	390
100-D-70_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	14,000
100-D-70_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	2,200
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	2,000
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	4,400
100-D-70_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	61,100
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	78,800
100-D-74_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.01E+06
100-D-74_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg	10
100-D-74_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,500
100-D-74_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	54,300
100-D-74_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	11
100-D-74_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	11
100-D-74_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	8.9
100-D-74_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	120
100-D-74_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	6,400
100-D-74_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	16
100-D-74_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,300
100-D-74_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	13,400
100-D-74_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.29E+07
100-D-74_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,300
100-D-74_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	278,000
100-D-74_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	17
100-D-74_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	320
100-D-74_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,500
100-D-74_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	40
100-D-74_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	57,600
100-D-74_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	40,900
100-D-75:3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	4.82E+06
100-D-75:3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,000
100-D-75:3_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	60,500
100-D-75:3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	76
100-D-75:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	5,900
100-D-75:3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,700
100-D-75:3_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	18,000
100-D-75:3_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.12E+07
100-D-75:3_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	5,000
100-D-75:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	297,000
100-D-75:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	17
100-D-75:3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	350
100-D-75:3_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,100
100-D-75:3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	2,400
100-D-75:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	52,700
100-D-75:3_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	39,600
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,300
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	4,600
100-D-82_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	3.15E+06
100-D-82_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	3.5
100-D-82_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,900
100-D-82_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	27,800
100-D-82_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	93
100-D-82_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	49
100-D-82_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	8,300
100-D-82_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	5,400
100-D-82_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	8,700
100-D-82_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	9.96E+06
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	134,000
100-D-82_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	164,000
100-D-82_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	290
100-D-82_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	6,900
100-D-82_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	17,800
100-D-82_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	37,500
100-D-83:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	4.62E+06
100-D-83:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	550
100-D-83:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	4,800
100-D-83:4_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	62,400
100-D-83:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	120
100-D-83:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	52
100-D-83:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	7,800
100-D-83:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,200
100-D-83:4_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	18,400
100-D-83:4_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	1,000
100-D-83:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	172
100-D-83:4_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.58E+07
100-D-83:4_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	8,600
100-D-83:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	284,000
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	950
100-D-83:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	440
100-D-83:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,900
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,600
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	2,500
100-D-83:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	76,100
100-D-83:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	49,100
100-D-84:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.16E+06
100-D-84:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,500
100-D-84:1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	74,700
100-D-84:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	4.4
100-D-84:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	300
100-D-84:1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	79
100-D-84:1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,500

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-84:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	43
100-D-84:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,900
100-D-84:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	11,800
100-D-84:1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,200
100-D-84:1_Shallow_Focused	non-Rad	Diethylphthalate	84-66-2	µg/kg	72
100-D-84:1_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	1,100
100-D-84:1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.87E+07
100-D-84:1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,400
100-D-84:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	343,000
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	120
100-D-84:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	390
100-D-84:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,800
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	9,400
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	10,200
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	94,400
100-D-84:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	52,500
100-D-85:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	3.99E+06
100-D-85:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,100
100-D-85:1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	53,900
100-D-85:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	88
100-D-85:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	5,400
100-D-85:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,600
100-D-85:1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	11,600
100-D-85:1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.27E+07
100-D-85:1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	1,800
100-D-85:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	278,000
100-D-85:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	390
100-D-85:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,500
100-D-85:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	57,900
100-D-85:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	40,100
100-D-87_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.62E+06
100-D-87_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	480
100-D-87_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	7,000
100-D-87_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	89,200
100-D-87_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	45
100-D-87_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	55
100-D-87_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	120
100-D-87_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	180
100-D-87_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	2,400
100-D-87_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	450
100-D-87_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,300
100-D-87_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	64
100-D-87_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,600
100-D-87_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	16,800
100-D-87_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	41
100-D-87_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	36
100-D-87_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.03E+07
100-D-87_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	19,300
100-D-87_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	304,000
100-D-87_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	16
100-D-87_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	380
100-D-87_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,800
100-D-87_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	55
100-D-87_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	48,000
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	83,600
100-D-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.71E+06
100-D-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	510
100-D-88_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	2.9
100-D-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,100
100-D-88_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	105,000
100-D-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	270
100-D-88_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	930
100-D-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	10,400
100-D-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	11,500
100-D-88_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	29,200
100-D-88_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	1,900
100-D-88_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	300
100-D-88_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	3.09E+07
100-D-88_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,400
100-D-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	384,000
100-D-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	12
100-D-88_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	1.9
100-D-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	300
100-D-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,400
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,900
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	2,800
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	6,300
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	15,000
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	104,000
100-D-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	63,900
100-D-9_Shallow_Focused	non-Rad	Acetone	67-64-1	µg/kg	7.0
100-D-9_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	3.89E+06
100-D-9_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,200
100-D-9_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	63,800
100-D-9_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	470
100-D-9_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	29
100-D-9_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	820
100-D-9_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	170
100-D-9_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	3,500
100-D-9_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,600
100-D-9_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,300
100-D-9_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	25
100-D-9_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.51E+07
100-D-9_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,000
100-D-9_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	299,000
100-D-9_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	8.0

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-D-9_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	450
100-D-9_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,100
100-D-9_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	67,300
100-D-9_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	43,100
100-D-94_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.97E+06
100-D-94_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	450
100-D-94_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,100
100-D-94_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	59,800
100-D-94_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	200
100-D-94_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,000
100-D-94_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,300
100-D-94_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	12,000
100-D-94_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	1,100
100-D-94_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.81E+07
100-D-94_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	24,700
100-D-94_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	275,000
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	580
100-D-94_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,000
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,800
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	2,700
100-D-94_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	40,200
100-D-94_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	38,700
116-D-10_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.42E+06
116-D-10_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	463
116-D-10_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,666
116-D-10_Shallow	non-Rad	Barium	7440-39-3	µg/kg	69,640
116-D-10_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	227
116-D-10_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,220
116-D-10_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	109
116-D-10_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,278
116-D-10_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,369
116-D-10_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,218
116-D-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	213
116-D-10_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.39E+07
116-D-10_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,465
116-D-10_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	320,612
116-D-10_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	383
116-D-10_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	10,914
116-D-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,491
116-D-10_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	67,123
116-D-10_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	44,464
116-D-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.092
116-D-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52
116-D-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50
116-D-10_Staging Pile Area	non-Rad	Aluminum	7429-90-5	µg/kg	4.68E+06
116-D-10_Staging Pile Area	non-Rad	Antimony	7440-36-0	µg/kg	484
116-D-10_Staging Pile Area	non-Rad	Arsenic	7440-38-2	µg/kg	2,037
116-D-10_Staging Pile Area	non-Rad	Barium	7440-39-3	µg/kg	60,780
116-D-10_Staging Pile Area	non-Rad	Beryllium	7440-41-7	µg/kg	171
116-D-10_Staging Pile Area	non-Rad	Boron	7440-42-8	µg/kg	856
116-D-10_Staging Pile Area	non-Rad	Cadmium	7440-43-9	µg/kg	99
116-D-10_Staging Pile Area	non-Rad	Chromium	7440-47-3	µg/kg	5,983
116-D-10_Staging Pile Area	non-Rad	Cobalt	7440-48-4	µg/kg	8,902
116-D-10_Staging Pile Area	non-Rad	Copper	7440-50-8	µg/kg	13,930
116-D-10_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	168
116-D-10_Staging Pile Area	non-Rad	Iron	7439-89-6	µg/kg	2.62E+07
116-D-10_Staging Pile Area	non-Rad	Lead	7439-92-1	µg/kg	2,894
116-D-10_Staging Pile Area	non-Rad	Manganese	7439-96-5	µg/kg	318,856
116-D-10_Staging Pile Area	non-Rad	Mercury	7439-97-6	µg/kg	15
116-D-10_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	µg/kg	414
116-D-10_Staging Pile Area	non-Rad	Nickel	7440-02-0	µg/kg	8,845
116-D-10_Staging Pile Area	non-Rad	Silver	7440-22-4	µg/kg	180
116-D-10_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,547
116-D-10_Staging Pile Area	non-Rad	Vanadium	7440-62-2	µg/kg	76,278
116-D-10_Staging Pile Area	non-Rad	Zinc	7440-66-6	µg/kg	45,859
116-D-10_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.079
116-D-10_Staging Pile Area	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.89
116-D-10_Staging Pile Area	Rad	Uranium-233/234	U-233/234	pCi/g	0.55
116-D-10_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.52
116-D-1A_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	4,740
116-D-1A_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,667
116-D-1A_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.7
116-D-1A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	409
116-D-1A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.8
116-D-1A_Deep	Rad	Europium-152	14683-23-9	pCi/g	193
116-D-1A_Deep	Rad	Europium-154	15585-10-1	pCi/g	16
116-D-1A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.20
116-D-1A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	11
116-D-1A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21
116-D-1A_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.52
116-D-1A_Deep	Rad	Uranium-238	U-238	pCi/g	0.56
116-D-1A_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	611
116-D-1A_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,451
116-D-1A_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.15
116-D-1A_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.76
116-D-1A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33
116-D-1A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32
116-D-1A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48
116-D-1A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49
116-D-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,423
116-D-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.068
116-D-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.55
116-D-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.032
116-D-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.47
116-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,268
116-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.050

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48
116-D-4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.060
116-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.42
116-D-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.96
116-D-5_Deep	non-Rad	Aluminum	7429-90-5	µg/kg	7.77E+06
116-D-5_Deep	non-Rad	Antimony	7440-36-0	µg/kg	358
116-D-5_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	3,033
116-D-5_Deep	non-Rad	Barium	7440-39-3	µg/kg	71,855
116-D-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	95
116-D-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	63
116-D-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	100
116-D-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	55
116-D-5_Deep	non-Rad	Beryllium	7440-41-7	µg/kg	227
116-D-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	120
116-D-5_Deep	non-Rad	Boron	7440-42-8	µg/kg	957
116-D-5_Deep	non-Rad	Cadmium	7440-43-9	µg/kg	87
116-D-5_Deep	non-Rad	Chromium	7440-47-3	µg/kg	17,916
116-D-5_Deep	non-Rad	Chrysene	218-01-9	µg/kg	87
116-D-5_Deep	non-Rad	Cobalt	7440-48-4	µg/kg	9,088
116-D-5_Deep	non-Rad	Copper	7440-50-8	µg/kg	18,442
116-D-5_Deep	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	36
116-D-5_Deep	non-Rad	Fluoranthene	206-44-0	µg/kg	90
116-D-5_Deep	non-Rad	Fluoride	16984-48-8	µg/kg	1,100
116-D-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	353
116-D-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	62
116-D-5_Deep	non-Rad	Iron	7439-89-6	µg/kg	2.41E+07
116-D-5_Deep	non-Rad	Lead	7439-92-1	µg/kg	5,457
116-D-5_Deep	non-Rad	Manganese	7439-96-5	µg/kg	338,530
116-D-5_Deep	non-Rad	Mercury	7439-97-6	µg/kg	318
116-D-5_Deep	non-Rad	Molybdenum	7439-98-7	µg/kg	350
116-D-5_Deep	non-Rad	Nickel	7440-02-0	µg/kg	13,273
116-D-5_Deep	non-Rad	Nitrate	14797-55-8	µg/kg	35,000
116-D-5_Deep	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	11,300
116-D-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	7,925
116-D-5_Deep	non-Rad	Pyrene	129-00-0	µg/kg	155
116-D-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,735
116-D-5_Deep	non-Rad	Vanadium	7440-62-2	µg/kg	58,449
116-D-5_Deep	non-Rad	Zinc	7440-66-6	µg/kg	50,192
116-D-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1.1
116-D-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.52
116-D-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28
116-D-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.67
116-D-5_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.27
116-D-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.58
116-D-5_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	5.08E+06
116-D-5_Overburden	non-Rad	Anthracene	120-12-7	µg/kg	12
116-D-5_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,147
116-D-5_Overburden	non-Rad	Barium	7440-39-3	µg/kg	58,354
116-D-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	47
116-D-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	37
116-D-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	55
116-D-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	17
116-D-5_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	177
116-D-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	854
116-D-5_Overburden	non-Rad	Boron	7440-42-8	µg/kg	850
116-D-5_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	62
116-D-5_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	6,881
116-D-5_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	33
116-D-5_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,546
116-D-5_Overburden	non-Rad	Copper	7440-50-8	µg/kg	15,050
116-D-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	3.5
116-D-5_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	131
116-D-5_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	µg/kg	1.5
116-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	151
116-D-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	15
116-D-5_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.07E+07
116-D-5_Overburden	non-Rad	Lead	7439-92-1	µg/kg	2,606
116-D-5_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	284,702
116-D-5_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	16
116-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	305
116-D-5_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	8,734
116-D-5_Overburden	non-Rad	Nitrate	14797-55-8	µg/kg	29,337
116-D-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	3,757
116-D-5_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	79
116-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,106
116-D-5_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	56,601
116-D-5_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	43,706
116-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.12
116-D-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.10
116-D-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	2.8
116-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.60
116-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71
116-D-5_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.94E+06
116-D-5_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,877
116-D-5_Shallow	non-Rad	Barium	7440-39-3	µg/kg	63,089
116-D-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	10
116-D-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	8.4
116-D-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	14
116-D-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	5.0
116-D-5_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	212
116-D-5_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,134
116-D-5_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	67
116-D-5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,365
116-D-5_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	13
116-D-5_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,905
116-D-5_Shallow	non-Rad	Copper	7440-50-8	µg/kg	17,071

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-D-5_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	13
116-D-5_Shallow	non-Rad	Fluoride	16984-48-8	µg/kg	480
116-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	185
116-D-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	5.9
116-D-5_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.35E+07
116-D-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,775
116-D-5_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	324,766
116-D-5_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	65
116-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	314
116-D-5_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	12,277
116-D-5_Shallow	non-Rad	Nitrate	14797-55-8	µg/kg	9,325
116-D-5_Shallow	non-Rad	Nitrite	14797-65-0	µg/kg	91,100
116-D-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	2,479
116-D-5_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	14
116-D-5_Shallow	non-Rad	Silver	7440-22-4	µg/kg	1,300
116-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,935
116-D-5_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	62,589
116-D-5_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	51,204
116-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.43
116-D-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0
116-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.5
116-D-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045
116-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.65
116-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65
116-D-5_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	6.6
116-D-5_Staging pile area footprint	non-Rad	Aluminum	7429-90-5	µg/kg	5.64E+06
116-D-5_Staging pile area footprint	non-Rad	Antimony	7440-36-0	µg/kg	239
116-D-5_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	µg/kg	2,371
116-D-5_Staging pile area footprint	non-Rad	Barium	7440-39-3	µg/kg	61,781
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	4.0
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	3.2
116-D-5_Staging pile area footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	5.0
116-D-5_Staging pile area footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	2.3
116-D-5_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	µg/kg	185
116-D-5_Staging pile area footprint	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg	1.5
116-D-5_Staging pile area footprint	non-Rad	Boron	7440-42-8	µg/kg	1,067
116-D-5_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	µg/kg	59
116-D-5_Staging pile area footprint	non-Rad	Chromium	7440-47-3	µg/kg	8,014
116-D-5_Staging pile area footprint	non-Rad	Chrysene	218-01-9	µg/kg	12
116-D-5_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	µg/kg	7,289
116-D-5_Staging pile area footprint	non-Rad	Copper	7440-50-8	µg/kg	14,234
116-D-5_Staging pile area footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	1.4
116-D-5_Staging pile area footprint	non-Rad	Fluoranthene	206-44-0	µg/kg	8.8
116-D-5_Staging pile area footprint	non-Rad	Fluoride	16984-48-8	µg/kg	300
116-D-5_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	149
116-D-5_Staging pile area footprint	non-Rad	Iron	7439-89-6	µg/kg	1.98E+07
116-D-5_Staging pile area footprint	non-Rad	Lead	7439-92-1	µg/kg	3,269
116-D-5_Staging pile area footprint	non-Rad	Manganese	7439-96-5	µg/kg	276,906
116-D-5_Staging pile area footprint	non-Rad	Methoxychlor	72-43-5	µg/kg	20
116-D-5_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	281
116-D-5_Staging pile area footprint	non-Rad	Nickel	7440-02-0	µg/kg	10,057
116-D-5_Staging pile area footprint	non-Rad	Nitrate	14797-55-8	µg/kg	13,893
116-D-5_Staging pile area footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	2,627
116-D-5_Staging pile area footprint	non-Rad	Pyrene	129-00-0	µg/kg	6.2
116-D-5_Staging pile area footprint	non-Rad	Silver	7440-22-4	µg/kg	228
116-D-5_Staging pile area footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,770
116-D-5_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	µg/kg	52,464
116-D-5_Staging pile area footprint	non-Rad	Zinc	7440-66-6	µg/kg	41,996
116-D-5_Staging pile area footprint	Rad	Uranium-233/234	U-233/234	pCi/g	0.59
116-D-5_Staging pile area footprint	Rad	Uranium-238	U-238	pCi/g	0.59
116-D-6_Deep	non-Rad	Acetone	67-64-1	µg/kg	10
116-D-6_Deep	non-Rad	Barium	7440-39-3	µg/kg	54,700
116-D-6_Deep	non-Rad	Chromium	7440-47-3	µg/kg	9,200
116-D-6_Deep	non-Rad	Lead	7439-92-1	µg/kg	3,800
116-D-6_Deep	non-Rad	Mercury	7439-97-6	µg/kg	50
116-D-6_Deep	non-Rad	Methylene chloride	75-09-2	µg/kg	10
116-D-6_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,265
116-D-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.54
116-D-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.9
116-D-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.15
116-D-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.038
116-D-6_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51
116-D-6_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.081
116-D-6_Deep	Rad	Uranium-238	U-238	pCi/g	0.43
116-D-7_Deep	non-Rad	Chromium	7440-47-3	µg/kg	217,059
116-D-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	3,737
116-D-7_Deep	non-Rad	Lead	7439-92-1	µg/kg	7,751
116-D-7_Deep	non-Rad	Mercury	7439-97-6	µg/kg	1,873
116-D-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	31
116-D-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	23
116-D-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	265
116-D-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	37
116-D-7_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.7
116-D-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	725
116-D-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.049
116-D-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.96
116-D-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6
116-D-7_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	8,241
116-D-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,126
116-D-7_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,655
116-D-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,474
116-D-7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.014
116-D-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20
116-D-7_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.050
116-D-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37
116-D-7_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.047

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-D-7_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.8
116-D-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48
116-D-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.040
116-D-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49
116-D-8_Shallow	non-Rad	Acetone	67-64-1	µg/kg	7.3
116-D-8_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	21
116-D-8_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	385
116-D-8_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	27
116-D-8_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,906
116-D-8_Shallow	non-Rad	Barium	7440-39-3	µg/kg	71,253
116-D-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	31
116-D-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	30
116-D-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	49
116-D-8_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	475
116-D-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	200
116-D-8_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,417
116-D-8_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	61
116-D-8_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,654
116-D-8_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	660
116-D-8_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,732
116-D-8_Shallow	non-Rad	Copper	7440-50-8	µg/kg	13,183
116-D-8_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	56
116-D-8_Shallow	non-Rad	Fluoride	16984-48-8	µg/kg	2,048
116-D-8_Shallow	non-Rad	Lead	7439-92-1	µg/kg	41,188
116-D-8_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	304,542
116-D-8_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	23
116-D-8_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	10
116-D-8_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,657
116-D-8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	2,208
116-D-8_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,943
116-D-8_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	24
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	11,473
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	23,750
116-D-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	436
116-D-8_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	53,268
116-D-8_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	46,326
116-D-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.7
116-D-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39
116-D-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.15
116-D-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.15
116-D-8_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	µg/kg	4.37E+06
116-D-8_Shallow_Focused_1	non-Rad	Aroclor-1260	11096-82-5	µg/kg	2.6
116-D-8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	µg/kg	1,800
116-D-8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	µg/kg	47,900
116-D-8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	µg/kg	120
116-D-8_Shallow_Focused_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	130
116-D-8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	µg/kg	41
116-D-8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	µg/kg	5,600
116-D-8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	µg/kg	6,200
116-D-8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	µg/kg	12,800
116-D-8_Shallow_Focused_1	non-Rad	Iron	7439-89-6	µg/kg	1.47E+07
116-D-8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	µg/kg	35,000
116-D-8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	µg/kg	232,000
116-D-8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	µg/kg	9,700
116-D-8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	µg/kg	22,100
116-D-8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	µg/kg	26,900
116-D-8_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	0.50
116-D-8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	µg/kg	5.77E+06
116-D-8_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	µg/kg	490
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	µg/kg	96
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	µg/kg	180
116-D-8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	µg/kg	2,700
116-D-8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	µg/kg	77,900
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	29
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	27
116-D-8_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	53
116-D-8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	µg/kg	120
116-D-8_Shallow_Focused_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	92
116-D-8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	µg/kg	2,700
116-D-8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	µg/kg	170
116-D-8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	µg/kg	10,100
116-D-8_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	µg/kg	45
116-D-8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	µg/kg	8,000
116-D-8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	µg/kg	15,300
116-D-8_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	µg/kg	52
116-D-8_Shallow_Focused_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	154
116-D-8_Shallow_Focused_2	non-Rad	Iron	7439-89-6	µg/kg	2.12E+07
116-D-8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	µg/kg	10,800
116-D-8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	µg/kg	301,000
116-D-8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	µg/kg	29
116-D-8_Shallow_Focused_2	non-Rad	Methylene chloride	75-09-2	µg/kg	2.4
116-D-8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	µg/kg	370
116-D-8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	µg/kg	9,900
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	5,000
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	5,300
116-D-8_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	µg/kg	53
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	µg/kg	1,200
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	17,000
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	46,000
116-D-8_Shallow_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	765
116-D-8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	µg/kg	58,700
116-D-8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	µg/kg	55,200
116-D-8_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	7.6
116-D-8_Shallow_Focused_2	Rad	Uranium-234	13966-29-5	pCi/g	0.20
116-D-8_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.26
116-D-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,648

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-D-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.055
116-D-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.56
116-D-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50
116-D-9_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.051
116-D-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55
116-DR-1,2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	900
116-DR-1,2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	75
116-DR-1,2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	3.5
116-DR-1,2_Deep	Rad	Europium-152	14683-23-9	pCi/g	126
116-DR-1,2_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.1
116-DR-1,2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	49
116-DR-1,2_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.077
116-DR-1,2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.3
116-DR-1,2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	29
116-DR-1,2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,432
116-DR-1,2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.68
116-DR-1,2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.049
116-DR-1,2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18
116-DR-1,2_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.029
116-DR-1,2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.47
116-DR-1,2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.027
116-DR-1,2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.48
116-DR-10_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	6.42E+06
116-DR-10_Overburden	non-Rad	Aroclor-1260	11096-82-5	µg/kg	6.0
116-DR-10_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,958
116-DR-10_Overburden	non-Rad	Barium	7440-39-3	µg/kg	66,524
116-DR-10_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	190
116-DR-10_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,049
116-DR-10_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	88
116-DR-10_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	10,292
116-DR-10_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	6,708
116-DR-10_Overburden	non-Rad	Copper	7440-50-8	µg/kg	13,263
116-DR-10_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.05E+07
116-DR-10_Overburden	non-Rad	Lead	7439-92-1	µg/kg	7,026
116-DR-10_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	288,834
116-DR-10_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	35
116-DR-10_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	307
116-DR-10_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	9,734
116-DR-10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,831
116-DR-10_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	51,136
116-DR-10_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	38,621
116-DR-10_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.59
116-DR-10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.62
116-DR-10_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	5.96E+06
116-DR-10_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	8.5
116-DR-10_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,821
116-DR-10_Shallow	non-Rad	Barium	7440-39-3	µg/kg	57,993
116-DR-10_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	182
116-DR-10_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,035
116-DR-10_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	101
116-DR-10_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,445
116-DR-10_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,101
116-DR-10_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,970
116-DR-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	100
116-DR-10_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.00E+07
116-DR-10_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,281
116-DR-10_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	279,317
116-DR-10_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	22
116-DR-10_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	332
116-DR-10_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	10,308
116-DR-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,926
116-DR-10_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	50,456
116-DR-10_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	38,543
116-DR-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42
116-DR-10_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.16
116-DR-10_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.043
116-DR-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61
116-DR-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65
116-DR-10_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	4.99E+06
116-DR-10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,790
116-DR-10_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	41,600
116-DR-10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	161
116-DR-10_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	598
116-DR-10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	143
116-DR-10_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	6,650
116-DR-10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,370
116-DR-10_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,000
116-DR-10_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	240
116-DR-10_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.66E+07
116-DR-10_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,750
116-DR-10_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	310,000
116-DR-10_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	13
116-DR-10_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	497
116-DR-10_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	8,630
116-DR-10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,164
116-DR-10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	73,400
116-DR-10_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	46,500
116-DR-10_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.65
116-DR-10_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.58
116-DR-10_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20
116-DR-10_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.60
116-DR-10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.39
116-DR-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,477
116-DR-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061
116-DR-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.65
116-DR-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-DR-5_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	7.32E+06
116-DR-5_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,616
116-DR-5_Overburden	non-Rad	Barium	7440-39-3	µg/kg	72,420
116-DR-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	74
116-DR-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	58
116-DR-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	102
116-DR-5_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	120
116-DR-5_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,142
116-DR-5_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	11,534
116-DR-5_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	92
116-DR-5_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	9,716
116-DR-5_Overburden	non-Rad	Copper	7440-50-8	µg/kg	21,451
116-DR-5_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	85
116-DR-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	258
116-DR-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	45
116-DR-5_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.33E+07
116-DR-5_Overburden	non-Rad	Lead	7439-92-1	µg/kg	4,039
116-DR-5_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	336,163
116-DR-5_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	51
116-DR-5_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	11,348
116-DR-5_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	87
116-DR-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,213
116-DR-5_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	59,625
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	76,417
116-DR-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.25
116-DR-5_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.20
116-DR-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.80
116-DR-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	29
116-DR-5_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.11
116-DR-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19
116-DR-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.20
116-DR-5_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.77
116-DR-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.062
116-DR-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.74
116-DR-5_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	7.83E+06
116-DR-5_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,551
116-DR-5_Shallow	non-Rad	Barium	7440-39-3	µg/kg	70,792
116-DR-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	146
116-DR-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	58
116-DR-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	178
116-DR-5_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	246
116-DR-5_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	67
116-DR-5_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,500
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	25,436
116-DR-5_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	169
116-DR-5_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,533
116-DR-5_Shallow	non-Rad	Copper	7440-50-8	µg/kg	21,728
116-DR-5_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	250
116-DR-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	554
116-DR-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	38
116-DR-5_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.23E+07
116-DR-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,907
116-DR-5_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	309,849
116-DR-5_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	48
116-DR-5_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	540
116-DR-5_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	12,850
116-DR-5_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	237
116-DR-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,812
116-DR-5_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	55,591
116-DR-5_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	45,492
116-DR-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.96
116-DR-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12
116-DR-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.5
116-DR-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	30
116-DR-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.12
116-DR-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32
116-DR-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.20
116-DR-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.0
116-DR-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.42
116-DR-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.93
116-DR-5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	8.65E+06
116-DR-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,100
116-DR-5_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	70,300
116-DR-5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	56
116-DR-5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	70
116-DR-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	200
116-DR-5_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	71
116-DR-5_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,400
116-DR-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	16,600
116-DR-5_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	62
116-DR-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,700
116-DR-5_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	26,100
116-DR-5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	94
116-DR-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	361
116-DR-5_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.31E+07
116-DR-5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,500
116-DR-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	325,000
116-DR-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	45
116-DR-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	15,900
116-DR-5_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	100
116-DR-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,274
116-DR-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	56,300
116-DR-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	49,400
116-DR-5_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.95
116-DR-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.53
116-DR-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.1

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-DR-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.30
116-DR-5_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.89
116-DR-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.76
116-DR-5_Staging Pile Area	non-Rad	Aluminum	7429-90-5	µg/kg	6.36E+06
116-DR-5_Staging Pile Area	non-Rad	Arsenic	7440-38-2	µg/kg	2,837
116-DR-5_Staging Pile Area	non-Rad	Barium	7440-39-3	µg/kg	58,874
116-DR-5_Staging Pile Area	non-Rad	Beryllium	7440-41-7	µg/kg	110
116-DR-5_Staging Pile Area	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	62
116-DR-5_Staging Pile Area	non-Rad	Chromium	7440-47-3	µg/kg	11,197
116-DR-5_Staging Pile Area	non-Rad	Cobalt	7440-48-4	µg/kg	7,808
116-DR-5_Staging Pile Area	non-Rad	Copper	7440-50-8	µg/kg	17,612
116-DR-5_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	427
116-DR-5_Staging Pile Area	non-Rad	Iron	7439-89-6	µg/kg	2.01E+07
116-DR-5_Staging Pile Area	non-Rad	Lead	7439-92-1	µg/kg	2,929
116-DR-5_Staging Pile Area	non-Rad	Manganese	7439-96-5	µg/kg	292,940
116-DR-5_Staging Pile Area	non-Rad	Mercury	7439-97-6	µg/kg	24
116-DR-5_Staging Pile Area	non-Rad	Nickel	7440-02-0	µg/kg	11,700
116-DR-5_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,095
116-DR-5_Staging Pile Area	non-Rad	Vanadium	7440-62-2	µg/kg	51,250
116-DR-5_Staging Pile Area	non-Rad	Zinc	7440-66-6	µg/kg	39,187
116-DR-5_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.14
116-DR-5_Staging Pile Area	Rad	Tritium	10028-17-8	pCi/g	0.20
116-DR-5_Staging Pile Area	Rad	Uranium-234	13966-29-5	pCi/g	0.72
116-DR-5_Staging Pile Area	Rad	Uranium-235	15117-96-1	pCi/g	0.11
116-DR-5_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.70
116-DR-6_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,369
116-DR-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.5
116-DR-6_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.31
116-DR-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	14
116-DR-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4
116-DR-6_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.072
116-DR-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.77
116-DR-6_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.1
116-DR-6_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.53
116-DR-6_Deep	Rad	Uranium-238	U-238	pCi/g	0.46
116-DR-6_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,417
116-DR-6_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.091
116-DR-6_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.48
116-DR-6_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.43
116-DR-6_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62
116-DR-6_Shallow	Rad	Uranium-238	U-238	pCi/g	0.48
116-DR-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,586
116-DR-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.073
116-DR-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22
116-DR-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70
116-DR-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.12
116-DR-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.51
116-DR-8_Overburden_2	non-Rad	Acetone	67-64-1	µg/kg	26
116-DR-8_Overburden_2	non-Rad	Antimony	7440-36-0	µg/kg	535
116-DR-8_Overburden_2	non-Rad	Arsenic	7440-38-2	µg/kg	2,248
116-DR-8_Overburden_2	non-Rad	Barium	7440-39-3	µg/kg	51,821
116-DR-8_Overburden_2	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	77
116-DR-8_Overburden_2	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	46
116-DR-8_Overburden_2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	95
116-DR-8_Overburden_2	non-Rad	Beryllium	7440-41-7	µg/kg	555
116-DR-8_Overburden_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	347
116-DR-8_Overburden_2	non-Rad	Chromium	7440-47-3	µg/kg	7,334
116-DR-8_Overburden_2	non-Rad	Chrysene	218-01-9	µg/kg	110
116-DR-8_Overburden_2	non-Rad	Cobalt	7440-48-4	µg/kg	8,689
116-DR-8_Overburden_2	non-Rad	Copper	7440-50-8	µg/kg	13,745
116-DR-8_Overburden_2	non-Rad	Fluoranthene	206-44-0	µg/kg	180
116-DR-8_Overburden_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	175
116-DR-8_Overburden_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	22
116-DR-8_Overburden_2	non-Rad	Lead	7439-92-1	µg/kg	3,831
116-DR-8_Overburden_2	non-Rad	Lithium	7439-93-2	µg/kg	6,086
116-DR-8_Overburden_2	non-Rad	Manganese	7439-96-5	µg/kg	323,773
116-DR-8_Overburden_2	non-Rad	Methylene chloride	75-09-2	µg/kg	1.8
116-DR-8_Overburden_2	non-Rad	Nickel	7440-02-0	µg/kg	11,376
116-DR-8_Overburden_2	non-Rad	Pyrene	129-00-0	µg/kg	120
116-DR-8_Overburden_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	898
116-DR-8_Overburden_2	non-Rad	Vanadium	7440-62-2	µg/kg	65,299
116-DR-8_Overburden_2	non-Rad	Zinc	7440-66-6	µg/kg	47,917
116-DR-8_Overburden_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.091
116-DR-8_Overburden_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20
116-DR-8_Overburden_2	Rad	Uranium-234	13966-29-5	pCi/g	0.28
116-DR-8_Overburden_2	Rad	Uranium-238	U-238	pCi/g	0.30
116-DR-8_Overburden_3	non-Rad	Acetone	67-64-1	µg/kg	8.6
116-DR-8_Overburden_3	non-Rad	Antimony	7440-36-0	µg/kg	747
116-DR-8_Overburden_3	non-Rad	Arsenic	7440-38-2	µg/kg	2,507
116-DR-8_Overburden_3	non-Rad	Barium	7440-39-3	µg/kg	63,744
116-DR-8_Overburden_3	non-Rad	Beryllium	7440-41-7	µg/kg	1,958
116-DR-8_Overburden_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	133
116-DR-8_Overburden_3	non-Rad	Boron	7440-42-8	µg/kg	1,274
116-DR-8_Overburden_3	non-Rad	Cadmium	7440-43-9	µg/kg	78
116-DR-8_Overburden_3	non-Rad	Chromium	7440-47-3	µg/kg	9,365
116-DR-8_Overburden_3	non-Rad	Chrysene	218-01-9	µg/kg	30
116-DR-8_Overburden_3	non-Rad	Cobalt	7440-48-4	µg/kg	9,279
116-DR-8_Overburden_3	non-Rad	Copper	7440-50-8	µg/kg	13,021
116-DR-8_Overburden_3	non-Rad	Lead	7439-92-1	µg/kg	4,813
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	µg/kg	27,770
116-DR-8_Overburden_3	non-Rad	Manganese	7439-96-5	µg/kg	348,289
116-DR-8_Overburden_3	non-Rad	Methylene chloride	75-09-2	µg/kg	3.4
116-DR-8_Overburden_3	non-Rad	Molybdenum	7439-98-7	µg/kg	370
116-DR-8_Overburden_3	non-Rad	Nickel	7440-02-0	µg/kg	11,807
116-DR-8_Overburden_3	non-Rad	Pyrene	129-00-0	µg/kg	17
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	µg/kg	2,200

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-DR-8_Overburden_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	478
116-DR-8_Overburden_3	non-Rad	Vanadium	7440-62-2	µg/kg	70,346
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	µg/kg	72,846
116-DR-8_Overburden_3	Rad	Cesium-137	10045-97-3	pCi/g	0.11
116-DR-8_Overburden_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25
116-DR-8_Overburden_3	Rad	Uranium-234	13966-29-5	pCi/g	0.15
116-DR-8_Overburden_3	Rad	Uranium-238	U-238	pCi/g	0.16
116-DR-8_Shallow	non-Rad	1,2-Dichlorobenzene	95-50-1	µg/kg	26
116-DR-8_Shallow	non-Rad	2,4,5-Trichlorophenol	95-95-4	µg/kg	10
116-DR-8_Shallow	non-Rad	2,4-Dichlorophenol	120-83-2	µg/kg	11
116-DR-8_Shallow	non-Rad	2-Chloronaphthalene	91-58-7	µg/kg	11
116-DR-8_Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	12
116-DR-8_Shallow	non-Rad	Acetone	67-64-1	µg/kg	19
116-DR-8_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	531
116-DR-8_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,452
116-DR-8_Shallow	non-Rad	Barium	7440-39-3	µg/kg	65,315
116-DR-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	42
116-DR-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	28
116-DR-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	32
116-DR-8_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	1,024
116-DR-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	210
116-DR-8_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,783
116-DR-8_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	8,235
116-DR-8_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	33
116-DR-8_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,776
116-DR-8_Shallow	non-Rad	Copper	7440-50-8	µg/kg	13,953
116-DR-8_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	25
116-DR-8_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	192
116-DR-8_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	22
116-DR-8_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,208
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	µg/kg	70,444
116-DR-8_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	305,029
116-DR-8_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	9.5
116-DR-8_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	1.9
116-DR-8_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	640
116-DR-8_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,727
116-DR-8_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	19
116-DR-8_Shallow	non-Rad	Toluene	108-88-3	µg/kg	1.1
116-DR-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	585
116-DR-8_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	64,429
116-DR-8_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	50,213
116-DR-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.15
116-DR-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32
116-DR-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.18
116-DR-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20
116-DR-9_Deep	non-Rad	Aroclor-1242	53469-21-9	µg/kg	75
116-DR-9_Deep	non-Rad	Aroclor-1260	11096-82-5	µg/kg	123
116-DR-9_Deep	non-Rad	Chromium	7440-47-3	µg/kg	20,225
116-DR-9_Deep	non-Rad	Lead	7439-92-1	µg/kg	3,100
116-DR-9_Deep	Rad	Cesium-137	10045-97-3	pCi/g	11
116-DR-9_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.7
116-DR-9_Deep	Rad	Europium-152	14683-23-9	pCi/g	26
116-DR-9_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.5
116-DR-9_Deep	Rad	Nickel-63	13981-37-8	pCi/g	54
116-DR-9_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.33
116-DR-9_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7
116-DR-9_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	16,093
116-DR-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,900
116-DR-9_Shallow	non-Rad	Lead	7439-92-1	µg/kg	2,838
116-DR-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	10
116-DR-9_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.044
116-DR-9_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.43
116-DR-9_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.071
116-DR-9_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	5.0
116-DR-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.36
116-DR-9_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.72
116-DR-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.26
118-D-1_Deep	non-Rad	Aluminum	7429-90-5	µg/kg	5.68E+06
118-D-1_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	2,356
118-D-1_Deep	non-Rad	Barium	7440-39-3	µg/kg	59,180
118-D-1_Deep	non-Rad	Beryllium	7440-41-7	µg/kg	227
118-D-1_Deep	non-Rad	Boron	7440-42-8	µg/kg	2,100
118-D-1_Deep	non-Rad	Cadmium	7440-43-9	µg/kg	56
118-D-1_Deep	non-Rad	Chromium	7440-47-3	µg/kg	7,521
118-D-1_Deep	non-Rad	Cobalt	7440-48-4	µg/kg	10,247
118-D-1_Deep	non-Rad	Copper	7440-50-8	µg/kg	16,443
118-D-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	344
118-D-1_Deep	non-Rad	Iron	7439-89-6	µg/kg	2.44E+07
118-D-1_Deep	non-Rad	Lead	7439-92-1	µg/kg	4,445
118-D-1_Deep	non-Rad	Manganese	7439-96-5	µg/kg	312,532
118-D-1_Deep	non-Rad	Mercury	7439-97-6	µg/kg	18
118-D-1_Deep	non-Rad	Molybdenum	7439-98-7	µg/kg	288
118-D-1_Deep	non-Rad	Nickel	7440-02-0	µg/kg	10,508
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	18,960
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	59,000
118-D-1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,165
118-D-1_Deep	non-Rad	Vanadium	7440-62-2	µg/kg	74,430
118-D-1_Deep	non-Rad	Zinc	7440-66-6	µg/kg	48,322
118-D-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.10
118-D-1_Deep	Rad	Tritium	10028-17-8	pCi/g	0.081
118-D-1_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.74
118-D-1_Deep	Rad	Uranium-238	U-238	pCi/g	0.73
118-D-1_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	6.71E+06
118-D-1_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	3,014
118-D-1_Overburden	non-Rad	Barium	7440-39-3	µg/kg	69,918
118-D-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	120

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-D-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	245
118-D-1_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,233
118-D-1_Overburden	non-Rad	Butylbenzylphthalate	85-68-7	µg/kg	110
118-D-1_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	65
118-D-1_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	10,001
118-D-1_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,318
118-D-1_Overburden	non-Rad	Copper	7440-50-8	µg/kg	15,107
118-D-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	397
118-D-1_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.00E+07
118-D-1_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,919
118-D-1_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	306,161
118-D-1_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	7.3
118-D-1_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	760
118-D-1_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	11,640
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	870
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	1,300
118-D-1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,197
118-D-1_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	50,373
118-D-1_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	38,461
118-D-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.080
118-D-1_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.041
118-D-1_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.75
118-D-1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.74
118-D-1_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	6.52E+06
118-D-1_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	2,632
118-D-1_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	60,015
118-D-1_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	230
118-D-1_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,700
118-D-1_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	44
118-D-1_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	9,458
118-D-1_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	7,736
118-D-1_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	16,752
118-D-1_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	175
118-D-1_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	2.18E+07
118-D-1_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	3,664
118-D-1_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	288,049
118-D-1_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	17
118-D-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	320
118-D-1_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	12,504
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	2,471
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	5,642
118-D-1_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,395
118-D-1_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	59,298
118-D-1_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	41,624
118-D-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.039
118-D-1_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	1.1
118-D-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.73
118-D-1_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.80
118-D-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.80
118-D-1_Shallow_5	non-Rad	Aluminum	7429-90-5	µg/kg	7.25E+06
118-D-1_Shallow_5	non-Rad	Arsenic	7440-38-2	µg/kg	3,467
118-D-1_Shallow_5	non-Rad	Barium	7440-39-3	µg/kg	71,721
118-D-1_Shallow_5	non-Rad	Beryllium	7440-41-7	µg/kg	141
118-D-1_Shallow_5	non-Rad	Boron	7440-42-8	µg/kg	1,207
118-D-1_Shallow_5	non-Rad	Cadmium	7440-43-9	µg/kg	72
118-D-1_Shallow_5	non-Rad	Chromium	7440-47-3	µg/kg	10,857
118-D-1_Shallow_5	non-Rad	Cobalt	7440-48-4	µg/kg	8,554
118-D-1_Shallow_5	non-Rad	Copper	7440-50-8	µg/kg	16,263
118-D-1_Shallow_5	non-Rad	Iron	7439-89-6	µg/kg	2.16E+07
118-D-1_Shallow_5	non-Rad	Lead	7439-92-1	µg/kg	4,866
118-D-1_Shallow_5	non-Rad	Manganese	7439-96-5	µg/kg	319,582
118-D-1_Shallow_5	non-Rad	Mercury	7439-97-6	µg/kg	13
118-D-1_Shallow_5	non-Rad	Nickel	7440-02-0	µg/kg	13,106
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	8,382
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	13,056
118-D-1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	729
118-D-1_Shallow_5	non-Rad	Vanadium	7440-62-2	µg/kg	55,100
118-D-1_Shallow_5	non-Rad	Zinc	7440-66-6	µg/kg	42,151
118-D-1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	0.059
118-D-1_Shallow_5	Rad	Tritium	10028-17-8	pCi/g	0.030
118-D-1_Shallow_5	Rad	Uranium-234	13966-29-5	pCi/g	0.20
118-D-1_Shallow_5	Rad	Uranium-238	U-238	pCi/g	0.19
118-D-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.35E+06
118-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,600
118-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	64,100
118-D-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	240
118-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,000
118-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	89
118-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,700
118-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,300
118-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,200
118-D-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	261
118-D-1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.18E+07
118-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,400
118-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	293,000
118-D-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	11
118-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,200
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,700
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	3,000
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	5,090
118-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	62,500
118-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	39,700
118-D-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.26
118-D-1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.14
118-D-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.050
118-D-1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.5

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-D-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.7
118-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	µg/kg	8.15E+06
118-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	µg/kg	2,695
118-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	µg/kg	75,217
118-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	µg/kg	193
118-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	68
118-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	µg/kg	1,317
118-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	µg/kg	10,490
118-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	µg/kg	7,233
118-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	µg/kg	19,109
118-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	µg/kg	2.04E+07
118-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	µg/kg	3,614
118-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	µg/kg	284,458
118-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	µg/kg	6.0
118-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	310
118-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	µg/kg	12,366
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,800
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	3,400
118-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,320
118-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	µg/kg	54,073
118-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	µg/kg	38,513
118-D-1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	0.37
118-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	1.3
118-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.78
118-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.78
118-D-4_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	3,133
118-D-4_Overburden	non-Rad	Barium	7440-39-3	µg/kg	75,116
118-D-4_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	277
118-D-4_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,546
118-D-4_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	200
118-D-4_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	12,931
118-D-4_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,560
118-D-4_Overburden	non-Rad	Copper	7440-50-8	µg/kg	14,932
118-D-4_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,760
118-D-4_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	352,925
118-D-4_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	40
118-D-4_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	500
118-D-4_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	13,144
118-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,797
118-D-4_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	66,686
118-D-4_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	47,811
118-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.033
118-D-4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.72
118-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.60
118-D-4_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	2,400
118-D-4_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,983
118-D-4_Shallow	non-Rad	Barium	7440-39-3	µg/kg	70,991
118-D-4_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	231
118-D-4_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,189
118-D-4_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	398
118-D-4_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	12,377
118-D-4_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,104
118-D-4_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,592
118-D-4_Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,908
118-D-4_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	342,788
118-D-4_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	66
118-D-4_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	582
118-D-4_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	12,565
118-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,042
118-D-4_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	80,969
118-D-4_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	59,118
118-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.38
118-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33
118-D-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0
118-D-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.31
118-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8
118-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.58
118-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.69
118-D-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	900
118-D-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,300
118-D-4_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	77,300
118-D-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	200
118-D-4_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,300
118-D-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	200
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	48,100
118-D-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	11,000
118-D-4_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,500
118-D-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	170
118-D-4_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	3,700
118-D-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	399,000
118-D-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	58
118-D-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	500
118-D-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	27,300
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	5,460
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	10,500
118-D-4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,221
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	92,400
118-D-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	59,600
118-D-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15
118-D-4_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.45
118-D-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.50
118-D-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.75
118-D-5_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	562
118-D-5_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,763
118-D-5_Overburden	non-Rad	Barium	7440-39-3	µg/kg	56,468
118-D-5_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	655

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-D-5_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	77
118-D-5_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	8,598
118-D-5_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	9,245
118-D-5_Overburden	non-Rad	Copper	7440-50-8	µg/kg	12,493
118-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	218
118-D-5_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,716
118-D-5_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	275,204
118-D-5_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	41
118-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	370
118-D-5_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	12,132
118-D-5_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	50,941
118-D-5_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	40,220
118-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20
118-D-5_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	442
118-D-5_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,660
118-D-5_Shallow	non-Rad	Barium	7440-39-3	µg/kg	60,858
118-D-5_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	672
118-D-5_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,500
118-D-5_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	76
118-D-5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	8,937
118-D-5_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	9,628
118-D-5_Shallow	non-Rad	Copper	7440-50-8	µg/kg	12,558
118-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	235
118-D-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	3,611
118-D-5_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	281,367
118-D-5_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	7.6
118-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	950
118-D-5_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	10,850
118-D-5_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	54,073
118-D-5_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	41,881
118-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	20
118-D-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25
118-D-5_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	440
118-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,500
118-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	53,000
118-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	930
118-D-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	54
118-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	8,500
118-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,800
118-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	13,000
118-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	3,400
118-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	290,000
118-D-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	6.1
118-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	320
118-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,000
118-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	62,000
118-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	43,000
118-D-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.1
118-D-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	113
118-D-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.15
118-D-6:4_Deep	non-Rad	Aluminum	7429-90-5	µg/kg	6.36E+06
118-D-6:4_Deep	non-Rad	Antimony	7440-36-0	µg/kg	660
118-D-6:4_Deep	non-Rad	Aroclor-1254	11097-69-1	µg/kg	4.9
118-D-6:4_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	1,992
118-D-6:4_Deep	non-Rad	Barium	7440-39-3	µg/kg	67,113
118-D-6:4_Deep	non-Rad	Beryllium	7440-41-7	µg/kg	161
118-D-6:4_Deep	non-Rad	Boron	7440-42-8	µg/kg	910
118-D-6:4_Deep	non-Rad	Cadmium	7440-43-9	µg/kg	570
118-D-6:4_Deep	non-Rad	Chromium	7440-47-3	µg/kg	29,454
118-D-6:4_Deep	non-Rad	Cobalt	7440-48-4	µg/kg	9,339
118-D-6:4_Deep	non-Rad	Copper	7440-50-8	µg/kg	22,244
118-D-6:4_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	841
118-D-6:4_Deep	non-Rad	Iron	7439-89-6	µg/kg	2.44E+07
118-D-6:4_Deep	non-Rad	Lead	7439-92-1	µg/kg	3,622
118-D-6:4_Deep	non-Rad	Manganese	7439-96-5	µg/kg	322,763
118-D-6:4_Deep	non-Rad	Mercury	7439-97-6	µg/kg	169
118-D-6:4_Deep	non-Rad	Molybdenum	7439-98-7	µg/kg	280
118-D-6:4_Deep	non-Rad	Nickel	7440-02-0	µg/kg	10,843
118-D-6:4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,393
118-D-6:4_Deep	non-Rad	Vanadium	7440-62-2	µg/kg	72,616
118-D-6:4_Deep	non-Rad	Zinc	7440-66-6	µg/kg	49,497
118-D-6:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	29
118-D-6:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.6
118-D-6:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6
118-D-6:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.99
118-D-6:4_Deep	Rad	Tritium	10028-17-8	pCi/g	0.026
118-D-6:4_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.76
118-D-6:4_Deep	Rad	Uranium-238	U-238	pCi/g	0.80
118-D-6:4_Deep_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.67E+06
118-D-6:4_Deep_Focused	non-Rad	Aroclor-1254	11097-69-1	µg/kg	73
118-D-6:4_Deep_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,900
118-D-6:4_Deep_Focused	non-Rad	Barium	7440-39-3	µg/kg	91,400
118-D-6:4_Deep_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	380
118-D-6:4_Deep_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	1,600
118-D-6:4_Deep_Focused	non-Rad	Chromium	7440-47-3	µg/kg	64,800
118-D-6:4_Deep_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,700
118-D-6:4_Deep_Focused	non-Rad	Copper	7440-50-8	µg/kg	56,600
118-D-6:4_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,640
118-D-6:4_Deep_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.84E+07
118-D-6:4_Deep_Focused	non-Rad	Lead	7439-92-1	µg/kg	5,500
118-D-6:4_Deep_Focused	non-Rad	Manganese	7439-96-5	µg/kg	356,000
118-D-6:4_Deep_Focused	non-Rad	Mercury	7439-97-6	µg/kg	380
118-D-6:4_Deep_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	290
118-D-6:4_Deep_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,000
118-D-6:4_Deep_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,855
118-D-6:4_Deep_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	94,800

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-D-6:4_Deep_Focused	non-Rad	Zinc	7440-66-6	µg/kg	148,000
118-D-6:4_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.29
118-D-6:4_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	85
118-D-6:4_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.63
118-D-6:4_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	17
118-D-6:4_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.0
118-D-6:4_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	37
118-D-6:4_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.3
118-D-6:4_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5
118-D-6:4_Deep_Focused	Rad	Tritium	10028-17-8	pCi/g	0.056
118-D-6:4_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.2
118-D-6:4_Deep_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.27
118-D-6:4_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	0.92
118-D-6:4_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	5.55E+06
118-D-6:4_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	µg/kg	8.3
118-D-6:4_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	µg/kg	7.9
118-D-6:4_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	2,091
118-D-6:4_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	62,434
118-D-6:4_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	247
118-D-6:4_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,800
118-D-6:4_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	95
118-D-6:4_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	7,251
118-D-6:4_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	9,140
118-D-6:4_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	15,162
118-D-6:4_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	403
118-D-6:4_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	2.62E+07
118-D-6:4_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	13,267
118-D-6:4_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	323,193
118-D-6:4_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	31
118-D-6:4_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	312
118-D-6:4_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	10,531
118-D-6:4_Shallow_1	non-Rad	Silver	7440-22-4	µg/kg	630
118-D-6:4_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,982
118-D-6:4_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	77,927
118-D-6:4_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	49,762
118-D-6:4_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.071
118-D-6:4_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.034
118-D-6:4_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.66
118-D-6:4_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.67
118-D-6:4_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	6.22E+06
118-D-6:4_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	µg/kg	21
118-D-6:4_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	µg/kg	6.8
118-D-6:4_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	3,057
118-D-6:4_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	67,362
118-D-6:4_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	274
118-D-6:4_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	62
118-D-6:4_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	10,050
118-D-6:4_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	8,093
118-D-6:4_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	21,766
118-D-6:4_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	559
118-D-6:4_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	2.40E+07
118-D-6:4_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	5,072
118-D-6:4_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	328,312
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	1,200
118-D-6:4_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	285
118-D-6:4_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	10,571
118-D-6:4_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	3,344
118-D-6:4_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	68,233
118-D-6:4_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	46,961
118-D-6:4_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.9
118-D-6:4_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	1.4
118-D-6:4_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.21
118-D-6:4_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36
118-D-6:4_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0.073
118-D-6:4_Shallow_2	Rad	Uranium-234	13966-29-5	pCi/g	0.93
118-D-6:4_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.1
118-DR-1_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.22E+06
118-DR-1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,230
118-DR-1_Shallow	non-Rad	Barium	7440-39-3	µg/kg	56,291
118-DR-1_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	1,045
118-DR-1_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,226
118-DR-1_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	58
118-DR-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	7,080
118-DR-1_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,720
118-DR-1_Shallow	non-Rad	Copper	7440-50-8	µg/kg	13,464
118-DR-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	248
118-DR-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,014
118-DR-1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	284,561
118-DR-1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	7.2
118-DR-1_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,930
118-DR-1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	54,964
118-DR-1_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	41,444
118-DR-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.11
118-DR-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.77
118-DR-1_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	124
118-DR-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.70E+06
118-DR-1_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	1,500
118-DR-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,800
118-DR-1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	62,000
118-DR-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	4.4
118-DR-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	480
118-DR-1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,100
118-DR-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	79
118-DR-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	7,300
118-DR-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,600
118-DR-1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,000

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-DR-1_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	µg/kg	0.49
118-DR-1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	3,700
118-DR-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	290,000
118-DR-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	6.4
118-DR-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,200
118-DR-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	54,000
118-DR-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	40,000
118-DR-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.050
118-DR-1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	9.7
118-DR-2:2_Deep	non-Rad	Aroclor-1260	11096-82-5	µg/kg	512
118-DR-2:2_Deep	non-Rad	Chromium	7440-47-3	µg/kg	11,713
118-DR-2:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	502
118-DR-2:2_Deep	non-Rad	Lead	7439-92-1	µg/kg	3,500
118-DR-2:2_Deep	non-Rad	Mercury	7439-97-6	µg/kg	50
118-DR-2:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,166
118-DR-2:2_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.12
118-DR-2:2_Deep	Rad	Carbon-14	14762-75-5	pCi/g	9.4
118-DR-2:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	12
118-DR-2:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	4.3
118-DR-2:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.8
118-DR-2:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.94
118-DR-2:2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	47
118-DR-2:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.2
118-DR-2:2_Deep	Rad	Technetium-99	14133-76-7	pCi/g	1.1
118-DR-2:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.46
118-DR-2:2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.079
118-DR-2:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.39
118-DR-2:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	34
118-DR-2:2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,200
118-DR-2:2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	67,900
118-DR-2:2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,700
118-DR-2:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	699
118-DR-2:2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	10,112
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	164
118-DR-2:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,474
118-DR-2:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.51
118-DR-2:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12
118-DR-2:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.45
118-DR-2:2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.8
118-DR-2:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.18
118-DR-2:2_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	2.4
118-DR-2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.88
118-DR-2:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.43
118-DR-2:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50
120-D-2_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	720
120-D-2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,310
120-D-2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	73,265
120-D-2_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	251
120-D-2_Shallow	non-Rad	Boron	7440-42-8	µg/kg	2,704
120-D-2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	117
120-D-2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	7,075
120-D-2_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	9,385
120-D-2_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,512
120-D-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	220
120-D-2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	6,162
120-D-2_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	339,488
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	111
120-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	605
120-D-2_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,826
120-D-2_Shallow	non-Rad	Nitrate	14797-55-8	µg/kg	9,910
120-D-2_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	554
120-D-2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	77,181
120-D-2_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	52,904
120-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,300
120-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	61,900
120-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	310
120-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,000
120-D-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	160
120-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	4,500
120-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,300
120-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,200
120-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	1,700
120-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	316,000
120-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	560
120-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,800
120-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	80,200
120-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	48,800
122-DR-1:2_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	2,600
122-DR-1:2_Deep	non-Rad	Barium	7440-39-3	µg/kg	58,500
122-DR-1:2_Deep	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	23
122-DR-1:2_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	150
122-DR-1:2_Deep	non-Rad	Cadmium	7440-43-9	µg/kg	210
122-DR-1:2_Deep	non-Rad	Chromium	7440-47-3	µg/kg	11,700
122-DR-1:2_Deep	non-Rad	Chrysene	218-01-9	µg/kg	22
122-DR-1:2_Deep	non-Rad	Fluoranthene	206-44-0	µg/kg	49
122-DR-1:2_Deep	non-Rad	Lead	7439-92-1	µg/kg	4,200
122-DR-1:2_Deep	non-Rad	Lithium	7439-93-2	µg/kg	10,000
122-DR-1:2_Deep	non-Rad	Pyrene	129-00-0	µg/kg	51
122-DR-1:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,926
122-DR-1:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.049
122-DR-1:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.62
122-DR-1:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.65
122-DR-1:2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,100
122-DR-1:2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	66,900
122-DR-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	66
122-DR-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	30

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
122-DR-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	36
122-DR-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	25
122-DR-1:2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	130
122-DR-1:2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	190
122-DR-1:2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,900
122-DR-1:2_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	55
122-DR-1:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	19
122-DR-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	110
122-DR-1:2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	7,400
122-DR-1:2_Shallow	non-Rad	Lithium	7439-93-2	µg/kg	12,500
122-DR-1:2_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	100
122-DR-1:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,941
122-DR-1:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.063
122-DR-1:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.66
122-DR-1:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65
126-D-2_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	1.2
126-D-2_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.86
126-D-2_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	833
126-D-2_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,644
126-D-2_Overburden	non-Rad	Barium	7440-39-3	µg/kg	81,680
126-D-2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	8.8
126-D-2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	8.4
126-D-2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	10
126-D-2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	6.0
126-D-2_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	802
126-D-2_Overburden	non-Rad	Boron	7440-42-8	µg/kg	2,077
126-D-2_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	7,899
126-D-2_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	16
126-D-2_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,810
126-D-2_Overburden	non-Rad	Copper	7440-50-8	µg/kg	12,860
126-D-2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	16
126-D-2_Overburden	non-Rad	Lead	7439-92-1	µg/kg	3,586
126-D-2_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	313,316
126-D-2_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	9.4
126-D-2_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	334
126-D-2_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	10,525
126-D-2_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	27
126-D-2_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	61,720
126-D-2_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	41,994
126-D-2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	7.2
126-D-2_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	95
126-D-2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	µg/kg	0.57
126-D-2_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	13
126-D-2_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	577
126-D-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	5.3
126-D-2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,826
126-D-2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	86,325
126-D-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	14
126-D-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	24
126-D-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	23
126-D-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	13
126-D-2_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	761
126-D-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	188
126-D-2_Shallow	non-Rad	Boron	7440-42-8	µg/kg	3,042
126-D-2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	43
126-D-2_Shallow	non-Rad	Chlordane	57-74-9	µg/kg	0.45
126-D-2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	7,872
126-D-2_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	38
126-D-2_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	10,752
126-D-2_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,151
126-D-2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	26
126-D-2_Shallow	non-Rad	Dieldrin	60-57-1	µg/kg	0.42
126-D-2_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	58
126-D-2_Shallow	non-Rad	Heptachlor epoxide	1024-57-3	µg/kg	7.8
126-D-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	6.0
126-D-2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,229
126-D-2_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	354,940
126-D-2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	17
126-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	317
126-D-2_Shallow	non-Rad	Naphthalene	91-20-3	µg/kg	14
126-D-2_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,613
126-D-2_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	37
126-D-2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	78,289
126-D-2_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	52,412
126-D-2_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	µg/kg	92
126-D-2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	2.9
126-D-2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	75
126-D-2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	240
126-D-2_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg	9.2
126-D-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	620
126-D-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	8.0
126-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,000
126-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	120,000
126-D-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	35
126-D-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	35
126-D-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	24
126-D-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	16
126-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	630
126-D-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	1,280
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	7,900
126-D-2_Shallow_Focused	non-Rad	Chlordane	57-74-9	µg/kg	0.31
126-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	7,800
126-D-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	23
126-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	9,700
126-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,000
126-D-2_Shallow_Focused	non-Rad	Endosulfan II	33213-65-9	µg/kg	0.39

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
126-D-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	221
126-D-2_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	63
126-D-2_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	µg/kg	5.8
126-D-2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	13
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	72,000
126-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	360,000
126-D-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	23
126-D-2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	µg/kg	0.86
126-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	330
126-D-2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	µg/kg	105
126-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,000
126-D-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	64
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	69,000
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	160,000
126-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	76,000
126-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	50,000
128-D-2_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.51
128-D-2_Shallow_1	non-Rad	Acetone	67-64-1	µg/kg	9.2
128-D-2_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	8.20E+06
128-D-2_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	µg/kg	36
128-D-2_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	2,904
128-D-2_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	82,983
128-D-2_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	77
128-D-2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	32
128-D-2_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	205
128-D-2_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	81
128-D-2_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,817
128-D-2_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	59
128-D-2_Shallow_1	non-Rad	Chloroform	67-66-3	µg/kg	0.87
128-D-2_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	11,003
128-D-2_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	7,525
128-D-2_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	15,094
128-D-2_Shallow_1	non-Rad	Diethylphthalate	84-66-2	µg/kg	400
128-D-2_Shallow_1	non-Rad	Ethylbenzene	100-41-4	µg/kg	0.64
128-D-2_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	2.21E+07
128-D-2_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	4,793
128-D-2_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	341,770
128-D-2_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	41
128-D-2_Shallow_1	non-Rad	Methylene chloride	75-09-2	µg/kg	2.1
128-D-2_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	310
128-D-2_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	11,887
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	µg/kg	1,100
128-D-2_Shallow_1	non-Rad	Toluene	108-88-3	µg/kg	1.4
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	19,691
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	16,599
128-D-2_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	53,369
128-D-2_Shallow_1	non-Rad	Xylenes (total)	1330-20-7	µg/kg	2.7
128-D-2_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	45,366
128-D-2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.24
128-D-2_Shallow_2	non-Rad	Acetone	67-64-1	µg/kg	10
128-D-2_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	5.67E+06
128-D-2_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	2,318
128-D-2_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	62,231
128-D-2_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	147
128-D-2_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,200
128-D-2_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	132
128-D-2_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	11,153
128-D-2_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	6,447
128-D-2_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	13,949
128-D-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	154
128-D-2_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	1.86E+07
128-D-2_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	3,494
128-D-2_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	277,702
128-D-2_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	18
128-D-2_Shallow_2	non-Rad	Methylene chloride	75-09-2	µg/kg	10
128-D-2_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	263
128-D-2_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	10,947
128-D-2_Shallow_2	non-Rad	Silver	7440-22-4	µg/kg	190
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,500
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	3,300
128-D-2_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	50,095
128-D-2_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	36,765
128-D-2_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.24
130-D-1_Shallow	non-Rad	1,1-Dichloroethene	75-35-4	µg/kg	0.88
130-D-1_Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	18
130-D-1_Shallow	non-Rad	Acetone	67-64-1	µg/kg	13
130-D-1_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.59E+06
130-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	24
130-D-1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,031
130-D-1_Shallow	non-Rad	Barium	7440-39-3	µg/kg	72,121
130-D-1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	3.7
130-D-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	16
130-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	69
130-D-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	25
130-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	51
130-D-1_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,642
130-D-1_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	81
130-D-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	7,452
130-D-1_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	43
130-D-1_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,789
130-D-1_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,835
130-D-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	63
130-D-1_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.20E+07
130-D-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	10,060
130-D-1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	306,041
130-D-1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	11

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
130-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	1.9
130-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	273
130-D-1_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,744
130-D-1_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	56
130-D-1_Shallow	non-Rad	Toluene	108-88-3	µg/kg	2.7
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	3,333
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	9,898
130-D-1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	51,859
130-D-1_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	52,218
130-D-1_Shallow_Focused	non-Rad	1,1-Dichloroethene	75-35-4	µg/kg	2.9
130-D-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	4.68E+06
130-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,600
130-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	59,600
130-D-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	130
130-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,400
130-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	73
130-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	5,200
130-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	11,400
130-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,800
130-D-1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.50E+07
130-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	3,200
130-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	305,000
130-D-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	3.2
130-D-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	280
130-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,100
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	64,000
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	110,000
130-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	82,200
130-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	43,900
130-D-1_Staging Pile Area Footprint	non-Rad	1,1-Dichloroethene	75-35-4	µg/kg	2.0
130-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	µg/kg	1.09E+07
130-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	µg/kg	14
130-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	µg/kg	2,871
130-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	µg/kg	102,565
130-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	11
130-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	µg/kg	142
130-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	1,900
130-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	µg/kg	2,148
130-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	µg/kg	128
130-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	µg/kg	13,222
130-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	µg/kg	29
130-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	µg/kg	8,624
130-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	µg/kg	18,874
130-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	µg/kg	45
130-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	µg/kg	2.11E+07
130-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	µg/kg	7,527
130-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	µg/kg	379,422
130-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	µg/kg	10
130-D-1_Staging Pile Area Footprint	non-Rad	Methylene chloride	75-09-2	µg/kg	1.8
130-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	300
130-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	µg/kg	14,522
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	3,162
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	18,492
130-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	µg/kg	43,839
130-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	µg/kg	45,473
132-D-1_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	5.09E+06
132-D-1_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	6.3
132-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	230
132-D-1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	1,758
132-D-1_Shallow	non-Rad	Barium	7440-39-3	µg/kg	63,595
132-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	4.0
132-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	660
132-D-1_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,150
132-D-1_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	62
132-D-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	6,667
132-D-1_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	4.9
132-D-1_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	10,535
132-D-1_Shallow	non-Rad	Copper	7440-50-8	µg/kg	16,707
132-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	164
132-D-1_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.51E+07
132-D-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	5,177
132-D-1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	314,188
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	1,000
132-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	580
132-D-1_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,451
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	µg/kg	860
132-D-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,092
132-D-1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	69,877
132-D-1_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	48,502
132-D-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.2
132-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.14
132-D-1_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.84
132-D-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.23
132-D-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.22
132-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	µg/kg	6.07E+06
132-D-1_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	µg/kg	39
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1248	12672-29-6	µg/kg	35
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	µg/kg	10
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	µg/kg	18
132-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	µg/kg	3,513
132-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	µg/kg	65,825
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	225
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	174
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	161
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	59
132-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	µg/kg	49

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
132-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	82
132-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	µg/kg	1,225
132-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	µg/kg	91
132-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	µg/kg	8,496
132-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	µg/kg	193
132-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	µg/kg	9,154
132-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	µg/kg	16,081
132-D-1_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	54
132-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	µg/kg	44
132-D-1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	µg/kg	402
132-D-1_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	µg/kg	68
132-D-1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	185
132-D-1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	79
132-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	µg/kg	2.21E+07
132-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	µg/kg	6,740
132-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	µg/kg	299,873
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	µg/kg	680
132-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	240
132-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	µg/kg	10,761
132-D-1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	µg/kg	439
132-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	481
132-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	µg/kg	57,749
132-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	µg/kg	48,544
132-D-1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.59
132-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	0.065
132-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.21
132-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.19
1607-D1_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	6.99E+06
1607-D1_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,396
1607-D1_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	64,671
1607-D1_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	228
1607-D1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	90
1607-D1_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,325
1607-D1_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	79
1607-D1_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	12,828
1607-D1_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	5,717
1607-D1_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	12,881
1607-D1_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	1.64E+07
1607-D1_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	4,020
1607-D1_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	273,291
1607-D1_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	6.7
1607-D1_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	11,264
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,367
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,650
1607-D1_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	38,625
1607-D1_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	35,700
1607-D1_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	7.64E+06
1607-D1_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	3,837
1607-D1_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	67,938
1607-D1_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	245
1607-D1_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,248
1607-D1_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	78
1607-D1_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	13,336
1607-D1_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	5,679
1607-D1_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	13,123
1607-D1_Shallow_2	non-Rad	Fluoride	16984-48-8	µg/kg	990
1607-D1_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	1.63E+07
1607-D1_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	4,186
1607-D1_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	282,971
1607-D1_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	8.0
1607-D1_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	11,792
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	940
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,444
1607-D1_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	37,046
1607-D1_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	35,077
1607-D1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	7.32E+06
1607-D1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,400
1607-D1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	84,000
1607-D1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	240
1607-D1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,400
1607-D1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	86
1607-D1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	12,400
1607-D1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	5,400
1607-D1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	12,300
1607-D1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.53E+07
1607-D1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,000
1607-D1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	273,000
1607-D1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	18
1607-D1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,900
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	4,500
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	2,600
1607-D1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	34,500
1607-D1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	34,200
1607-D1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	µg/kg	7.18E+06
1607-D1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	µg/kg	2.9
1607-D1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	µg/kg	3,159
1607-D1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	µg/kg	61,878
1607-D1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	µg/kg	224
1607-D1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	660
1607-D1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	µg/kg	77
1607-D1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	µg/kg	11,971
1607-D1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	µg/kg	6,119
1607-D1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	µg/kg	13,304
1607-D1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	µg/kg	1.65E+07
1607-D1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	µg/kg	4,179
1607-D1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	µg/kg	268,018

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
1607-D1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	µg/kg	15
1607-D1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	260
1607-D1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	µg/kg	11,512
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	4,900
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	3,226
1607-D1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	µg/kg	39,210
1607-D1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	µg/kg	34,383
1607-D2-1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	1,100
1607-D2-1_Shallow	non-Rad	Barium	7440-39-3	µg/kg	62,400
1607-D2-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	5,900
1607-D2-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	1,900
1607-D2-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,268
1607-D2-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.050
1607-D2-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.028
1607-D2-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.38
1607-D2-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.67
1607-D2-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.046
1607-D2-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.76
1607-D2-2_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	1,211
1607-D2-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	447
1607-D2-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	157
1607-D2-2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,481
1607-D2-2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	249,126
1607-D2-2_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	343
1607-D2-2_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,842
1607-D2-2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	378
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	19,771
1607-D2-2_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,840
1607-D2-2_Shallow	non-Rad	Copper	7440-50-8	µg/kg	25,777
1607-D2-2_Shallow	non-Rad	Fluoride	16984-48-8	µg/kg	1,700
1607-D2-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	300
1607-D2-2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	8,699
1607-D2-2_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	344,089
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	484
1607-D2-2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	643
1607-D2-2_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	13,309
1607-D2-2_Shallow	non-Rad	Nitrate	14797-55-8	µg/kg	204,415
1607-D2-2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	55,960
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	µg/kg	11,800
1607-D2-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,789
1607-D2-2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	68,020
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	91,971
1607-D2-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.35
1607-D2-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.86
1607-D2-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.94
1607-D2-3_Overburden	non-Rad	Barium	7440-39-3	µg/kg	55,845
1607-D2-3_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	6,597
1607-D2-3_Overburden	non-Rad	Lead	7439-92-1	µg/kg	5,700
1607-D2-3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.17
1607-D2-3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.075
1607-D2-3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.60
1607-D2-3_Shallow	non-Rad	Barium	7440-39-3	µg/kg	88,075
1607-D2-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	25
1607-D2-3_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,576
1607-D2-3_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,939
1607-D2-3_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	31
1607-D2-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.050
1607-D2-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22
1607-D2-4_Shallow	non-Rad	Barium	7440-39-3	µg/kg	60,300
1607-D2-4_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	6,100
1607-D2-4_Shallow	non-Rad	Lead	7439-92-1	µg/kg	4,000
1607-D2-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,340
1607-D2-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.037
1607-D2-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.53
1607-D2-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.45
1607-D4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,500
1607-D4_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	41,900
1607-D4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	900
1607-D4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	100
1607-D4_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,100
1607-D4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	350
1607-D4_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	3,500
1607-D4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,400
1607-D4_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,700
1607-D4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	60
1607-D4_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,600
1607-D4_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	269,000
1607-D4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	280
1607-D4_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	8,100
1607-D4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	µg/kg	2,460
1607-D4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	715
1607-D4_Shallow_Focused	non-Rad	Uranium	7440-61-1	µg/kg	1.6
1607-D4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	54,500
1607-D4_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	38,100
1607-D5_Shallow	non-Rad	2,4-Dinitrophenol	51-28-5	µg/kg	370
1607-D5_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	µg/kg	34
1607-D5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	29
1607-D5_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	4.0
1607-D5_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	µg/kg	0.80
1607-D5_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	1.20E+07
1607-D5_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	163
1607-D5_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	12
1607-D5_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,558
1607-D5_Shallow	non-Rad	Barium	7440-39-3	µg/kg	775,391
1607-D5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	1,962
1607-D5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	405

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
1607-D5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	449
1607-D5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	253
1607-D5_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	493
1607-D5_Shallow	non-Rad	Boron	7440-42-8	µg/kg	69,503
1607-D5_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	97
1607-D5_Shallow	non-Rad	Carbazole	86-74-8	µg/kg	48
1607-D5_Shallow	non-Rad	Chlordane	57-74-9	µg/kg	1.2
1607-D5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	9,673
1607-D5_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	779
1607-D5_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	10,198
1607-D5_Shallow	non-Rad	Copper	7440-50-8	µg/kg	31,565
1607-D5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	99
1607-D5_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	1,925
1607-D5_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	125
1607-D5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	160
1607-D5_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.40E+07
1607-D5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	106,537
1607-D5_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	330,505
1607-D5_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	25
1607-D5_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	1,201
1607-D5_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	14,373
1607-D5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	3,855
1607-D5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	5,528
1607-D5_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	2,647
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	21,904
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	37,994
1607-D5_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	71,779
1607-D5_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	44,033
600-30_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	8.55E+06
600-30_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,263
600-30_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	89,130
600-30_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	292
600-30_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	408
600-30_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	2,431
600-30_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	109
600-30_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	11,154
600-30_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	7,887
600-30_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	15,226
600-30_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	230
600-30_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	2.07E+07
600-30_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	4,711
600-30_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	360,369
600-30_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	386
600-30_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	11,429
600-30_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	6,410
600-30_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	49,219
600-30_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	43,816
600-30_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	8.79E+06
600-30_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	3,242
600-30_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	85,373
600-30_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	105
600-30_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	101
600-30_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,525
600-30_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	103
600-30_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	12,014
600-30_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	9,145
600-30_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	17,330
600-30_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	294
600-30_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	2.24E+07
600-30_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	4,021
600-30_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	351,748
600-30_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	6.5
600-30_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	390
600-30_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	12,530
600-30_Shallow_2	non-Rad	Silver	7440-22-4	µg/kg	170
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	820
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	1,275
600-30_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	57,064
600-30_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	43,114
600-30_Shallow_3	non-Rad	Aluminum	7429-90-5	µg/kg	6.93E+06
600-30_Shallow_3	non-Rad	Antimony	7440-36-0	µg/kg	430
600-30_Shallow_3	non-Rad	Arsenic	7440-38-2	µg/kg	2,866
600-30_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg	64,907
600-30_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg	66
600-30_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	87
600-30_Shallow_3	non-Rad	Boron	7440-42-8	µg/kg	1,700
600-30_Shallow_3	non-Rad	Cadmium	7440-43-9	µg/kg	67
600-30_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg	7,708
600-30_Shallow_3	non-Rad	Cobalt	7440-48-4	µg/kg	10,660
600-30_Shallow_3	non-Rad	Copper	7440-50-8	µg/kg	18,099
600-30_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	210
600-30_Shallow_3	non-Rad	Iron	7439-89-6	µg/kg	2.44E+07
600-30_Shallow_3	non-Rad	Lead	7439-92-1	µg/kg	7,862
600-30_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg	346,688
600-30_Shallow_3	non-Rad	Mercury	7439-97-6	µg/kg	6.4
600-30_Shallow_3	non-Rad	Molybdenum	7439-98-7	µg/kg	243
600-30_Shallow_3	non-Rad	Nickel	7440-02-0	µg/kg	12,270
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,643
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	8,600
600-30_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg	67,222
600-30_Shallow_3	non-Rad	Zinc	7440-66-6	µg/kg	43,856
600-30_Shallow_Focused	non-Rad	Aldrin	309-00-2	µg/kg	1.7
600-30_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.39E+06
600-30_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	349
600-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,590
600-30_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	99,100

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
600-30_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	319
600-30_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	2,460
600-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	134
600-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,800
600-30_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	10,300
600-30_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	18,300
600-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	270
600-30_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.34E+07
600-30_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	10,800
600-30_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	382,000
600-30_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	396
600-30_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,700
600-30_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	52,500
600-30_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	62,200
600-30_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	46,600
628-3_Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	18
628-3_Shallow	non-Rad	Aldrin	309-00-2	µg/kg	1.5
628-3_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.13E+06
628-3_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	3,150
628-3_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,521
628-3_Shallow	non-Rad	Barium	7440-39-3	µg/kg	57,199
628-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	4.0
628-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	3.7
628-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	3.3
628-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	2.1
628-3_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	193
628-3_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,771
628-3_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	136
628-3_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,406
628-3_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	8.5
628-3_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	6,637
628-3_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,747
628-3_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	31
628-3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	5.6
628-3_Shallow	non-Rad	Iron	7439-89-6	µg/kg	2.03E+07
628-3_Shallow	non-Rad	Lead	7439-92-1	µg/kg	15,972
628-3_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	284,235
628-3_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	165
628-3_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	372
628-3_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,674
628-3_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	3.6
628-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	9,961
628-3_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	53,113
628-3_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	43,721
628-3_Staging Pile Area_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	2.4
628-3_Staging Pile Area_2	non-Rad	Acenaphthene	83-32-9	µg/kg	1.4
628-3_Staging Pile Area_2	non-Rad	Aluminum	7429-90-5	µg/kg	8.11E+06
628-3_Staging Pile Area_2	non-Rad	Anthracene	120-12-7	µg/kg	8.6
628-3_Staging Pile Area_2	non-Rad	Aroclor-1254	11097-69-1	µg/kg	13
628-3_Staging Pile Area_2	non-Rad	Aroclor-1260	11096-82-5	µg/kg	9.1
628-3_Staging Pile Area_2	non-Rad	Arsenic	7440-38-2	µg/kg	2,870
628-3_Staging Pile Area_2	non-Rad	Barium	7440-39-3	µg/kg	78,503
628-3_Staging Pile Area_2	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	6.9
628-3_Staging Pile Area_2	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	6.5
628-3_Staging Pile Area_2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	9.3
628-3_Staging Pile Area_2	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	3.9
628-3_Staging Pile Area_2	non-Rad	Beryllium	7440-41-7	µg/kg	255
628-3_Staging Pile Area_2	non-Rad	Boron	7440-42-8	µg/kg	2,112
628-3_Staging Pile Area_2	non-Rad	Cadmium	7440-43-9	µg/kg	163
628-3_Staging Pile Area_2	non-Rad	Chromium	7440-47-3	µg/kg	12,445
628-3_Staging Pile Area_2	non-Rad	Chrysene	218-01-9	µg/kg	6.7
628-3_Staging Pile Area_2	non-Rad	Cobalt	7440-48-4	µg/kg	7,062
628-3_Staging Pile Area_2	non-Rad	Copper	7440-50-8	µg/kg	15,226
628-3_Staging Pile Area_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	3.0
628-3_Staging Pile Area_2	non-Rad	Fluoranthene	206-44-0	µg/kg	35
628-3_Staging Pile Area_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	15
628-3_Staging Pile Area_2	non-Rad	Iron	7439-89-6	µg/kg	2.17E+07
628-3_Staging Pile Area_2	non-Rad	Lead	7439-92-1	µg/kg	7,650
628-3_Staging Pile Area_2	non-Rad	Manganese	7439-96-5	µg/kg	323,863
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	µg/kg	113
628-3_Staging Pile Area_2	non-Rad	Molybdenum	7439-98-7	µg/kg	421
628-3_Staging Pile Area_2	non-Rad	Nickel	7440-02-0	µg/kg	10,261
628-3_Staging Pile Area_2	non-Rad	Pyrene	129-00-0	µg/kg	11
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,200
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	2,900
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	10,486
628-3_Staging Pile Area_2	non-Rad	Vanadium	7440-62-2	µg/kg	55,454
628-3_Staging Pile Area_2	non-Rad	Zinc	7440-66-6	µg/kg	48,319
628-3_Staging Pile Area_3	non-Rad	Aluminum	7429-90-5	µg/kg	6.90E+06
628-3_Staging Pile Area_3	non-Rad	Aroclor-1254	11097-69-1	µg/kg	8.3
628-3_Staging Pile Area_3	non-Rad	Aroclor-1260	11096-82-5	µg/kg	9.4
628-3_Staging Pile Area_3	non-Rad	Arsenic	7440-38-2	µg/kg	2,494
628-3_Staging Pile Area_3	non-Rad	Barium	7440-39-3	µg/kg	74,014
628-3_Staging Pile Area_3	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	1.8
628-3_Staging Pile Area_3	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	1.6
628-3_Staging Pile Area_3	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	2.4
628-3_Staging Pile Area_3	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	1.3
628-3_Staging Pile Area_3	non-Rad	Beryllium	7440-41-7	µg/kg	234
628-3_Staging Pile Area_3	non-Rad	Boron	7440-42-8	µg/kg	2,241
628-3_Staging Pile Area_3	non-Rad	Cadmium	7440-43-9	µg/kg	166
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	µg/kg	41,154
628-3_Staging Pile Area_3	non-Rad	Chrysene	218-01-9	µg/kg	1.9
628-3_Staging Pile Area_3	non-Rad	Cobalt	7440-48-4	µg/kg	7,463
628-3_Staging Pile Area_3	non-Rad	Copper	7440-50-8	µg/kg	18,417
628-3_Staging Pile Area_3	non-Rad	Fluoranthene	206-44-0	µg/kg	85
628-3_Staging Pile Area_3	non-Rad	Iron	7439-89-6	µg/kg	2.21E+07

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
628-3_Staging Pile Area_3	non-Rad	Lead	7439-92-1	µg/kg	13,526
628-3_Staging Pile Area_3	non-Rad	Manganese	7439-96-5	µg/kg	328,755
628-3_Staging Pile Area_3	non-Rad	Mercury	7439-97-6	µg/kg	30
628-3_Staging Pile Area_3	non-Rad	Molybdenum	7439-98-7	µg/kg	474
628-3_Staging Pile Area_3	non-Rad	Nickel	7440-02-0	µg/kg	9,872
628-3_Staging Pile Area_3	non-Rad	Pyrene	129-00-0	µg/kg	3.0
628-3_Staging Pile Area_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	13,203
628-3_Staging Pile Area_3	non-Rad	Vanadium	7440-62-2	µg/kg	58,456
628-3_Staging Pile Area_3	non-Rad	Zinc	7440-66-6	µg/kg	54,972
628-3_Staging Pile Area_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	1.5
628-3_Staging Pile Area_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	8.93E+06
628-3_Staging Pile Area_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,800
628-3_Staging Pile Area_Focused	non-Rad	Barium	7440-39-3	µg/kg	109,000
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	1.4
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	1.8
628-3_Staging Pile Area_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	4.3
628-3_Staging Pile Area_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	1.3
628-3_Staging Pile Area_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	298
628-3_Staging Pile Area_Focused	non-Rad	Boron	7440-42-8	µg/kg	3,500
628-3_Staging Pile Area_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	189
628-3_Staging Pile Area_Focused	non-Rad	Chromium	7440-47-3	µg/kg	12,000
628-3_Staging Pile Area_Focused	non-Rad	Chrysene	218-01-9	µg/kg	3.4
628-3_Staging Pile Area_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,420
628-3_Staging Pile Area_Focused	non-Rad	Copper	7440-50-8	µg/kg	19,700
628-3_Staging Pile Area_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	26
628-3_Staging Pile Area_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	2.9
628-3_Staging Pile Area_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.16E+07
628-3_Staging Pile Area_Focused	non-Rad	Lead	7439-92-1	µg/kg	7,500
628-3_Staging Pile Area_Focused	non-Rad	Manganese	7439-96-5	µg/kg	363,000
628-3_Staging Pile Area_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	353
628-3_Staging Pile Area_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,600
628-3_Staging Pile Area_Focused	non-Rad	Pyrene	129-00-0	µg/kg	4.5
628-3_Staging Pile Area_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	20,300
628-3_Staging Pile Area_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	52,400
628-3_Staging Pile Area_Focused	non-Rad	Zinc	7440-66-6	µg/kg	49,400
UPR-100-D-5_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	485
UPR-100-D-5_Overburden	non-Rad	Aroclor-1260	11096-82-5	µg/kg	4.3
UPR-100-D-5_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	2,640
UPR-100-D-5_Overburden	non-Rad	Barium	7440-39-3	µg/kg	78,785
UPR-100-D-5_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	178
UPR-100-D-5_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,085
UPR-100-D-5_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	6,103
UPR-100-D-5_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	8,238
UPR-100-D-5_Overburden	non-Rad	Copper	7440-50-8	µg/kg	13,771
UPR-100-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	165
UPR-100-D-5_Overburden	non-Rad	Lead	7439-92-1	µg/kg	2,643
UPR-100-D-5_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	397,997
UPR-100-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	389
UPR-100-D-5_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	8,772
UPR-100-D-5_Overburden	non-Rad	Selenium	7782-49-2	µg/kg	236
UPR-100-D-5_Overburden	non-Rad	Silver	7440-22-4	µg/kg	190
UPR-100-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,866
UPR-100-D-5_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	66,616
UPR-100-D-5_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	44,265
UPR-100-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.066
UPR-100-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53
UPR-100-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.54
UPR-100-D-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.039
UPR-100-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.54
UPR-100-D-5_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	370
UPR-100-D-5_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	2,612
UPR-100-D-5_Shallow	non-Rad	Barium	7440-39-3	µg/kg	64,474
UPR-100-D-5_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	194
UPR-100-D-5_Shallow	non-Rad	Boron	7440-42-8	µg/kg	2,067
UPR-100-D-5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	8,861
UPR-100-D-5_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,229
UPR-100-D-5_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,439
UPR-100-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	170
UPR-100-D-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	2,748
UPR-100-D-5_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	305,220
UPR-100-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	332
UPR-100-D-5_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	10,158
UPR-100-D-5_Shallow	non-Rad	Silver	7440-22-4	µg/kg	170
UPR-100-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,579
UPR-100-D-5_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	65,393
UPR-100-D-5_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	44,676
UPR-100-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.074
UPR-100-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.49
UPR-100-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53
UPR-100-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,110
UPR-100-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	50,200
UPR-100-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	146
UPR-100-D-5_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	744
UPR-100-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	5,560
UPR-100-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,240
UPR-100-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	12,800
UPR-100-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,200
UPR-100-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	254,000
UPR-100-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	330
UPR-100-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,000
UPR-100-D-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,151
UPR-100-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	60,100
UPR-100-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	40,600
UPR-100-D-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.41
UPR-100-D-5_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.030
UPR-100-D-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.38

Table 4-6. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-D Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]

Notes:

a. ECF-100DR1-11-0004, *Computation of Exposure Point Concentrations for the 100-DR-1, 100-DR-2, 100-HR-1, and 100-HR-2 Source Operable Units.*

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-H-17_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,395
100-H-17_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,015
100-H-17_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	471
100-H-17_Shallow	non-Rad	Lead	7439-92-1	µg/kg	6,489
100-H-17_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,853
100-H-17_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.26
100-H-17_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.50
100-H-17_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.60
100-H-17_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62
100-H-21_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	6,550
100-H-21_Deep	non-Rad	Chromium	7440-47-3	µg/kg	13,599
100-H-21_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,472
100-H-21_Deep	non-Rad	Lead	7439-92-1	µg/kg	17,593
100-H-21_Deep	non-Rad	Mercury	7439-97-6	µg/kg	64
100-H-21_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,644
100-H-21_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.4
100-H-21_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.28
100-H-21_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.2
100-H-21_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.41
100-H-21_Deep	Rad	Nickel-63	13981-37-8	pCi/g	10
100-H-21_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.076
100-H-21_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30
100-H-21_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51
100-H-21_Deep	Rad	Uranium-238	U-238	pCi/g	0.55
100-H-21_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	11,453
100-H-21_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	14,234
100-H-21_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	813
100-H-21_Overburden	non-Rad	Lead	7439-92-1	µg/kg	36,426
100-H-21_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	40
100-H-21_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,342
100-H-21_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.12
100-H-21_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.28
100-H-21_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045
100-H-21_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47
100-H-21_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.051
100-H-21_Overburden	Rad	Uranium-238	U-238	pCi/g	0.45
100-H-21_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	13,301
100-H-21_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	14,826
100-H-21_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	487
100-H-21_Shallow	non-Rad	Lead	7439-92-1	µg/kg	40,132
100-H-21_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,473
100-H-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.24
100-H-21_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28
100-H-21_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.072
100-H-21_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.075
100-H-21_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	0.63
100-H-21_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.54
100-H-21_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49
100-H-24_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	69
100-H-24_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	4,164
100-H-28:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	22
100-H-28:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	1.21E+07
100-H-28:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,300
100-H-28:1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	540,000
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	3.7
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	4.2
100-H-28:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	58
100-H-28:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	2.4
100-H-28:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	530
100-H-28:1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	66,400
100-H-28:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	15,000
100-H-28:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	4.3
100-H-28:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,000
100-H-28:1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	22,700
100-H-28:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	2.2
100-H-28:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	7.2
100-H-28:1_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	6.9
100-H-28:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	34
100-H-28:1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.18E+07
100-H-28:1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	5,700
100-H-28:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	340,000
100-H-28:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	30
100-H-28:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	1,100
100-H-28:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	µg/kg	23
100-H-28:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	17,200
100-H-28:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	8.3
100-H-28:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	52,700
100-H-28:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	45,200
100-H-28:6_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	7.85E+06
100-H-28:6_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	200
100-H-28:6_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	7,300
100-H-28:6_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	75,800
100-H-28:6_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	250
100-H-28:6_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	2,300
100-H-28:6_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	200
100-H-28:6_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	16,800
100-H-28:6_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,100
100-H-28:6_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,000
100-H-28:6_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.98E+07
100-H-28:6_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	31,400
100-H-28:6_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	287,000
100-H-28:6_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	10
100-H-28:6_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	430

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-H-28:6_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	15,400
100-H-28:6_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	45,200
100-H-28:6_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	49,300
100-H-3_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	9.60E+06
100-H-3_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	8.0
100-H-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	13
100-H-3_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	14,689
100-H-3_Shallow	non-Rad	Barium	7440-39-3	µg/kg	87,047
100-H-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	70
100-H-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	71
100-H-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	61
100-H-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	63
100-H-3_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	342
100-H-3_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg	2.5
100-H-3_Shallow	non-Rad	Boron	7440-42-8	µg/kg	4,684
100-H-3_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	242
100-H-3_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	17,525
100-H-3_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	85
100-H-3_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	6,489
100-H-3_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,046
100-H-3_Shallow	non-Rad	Dieldrin	60-57-1	µg/kg	4.9
100-H-3_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	138
100-H-3_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.99E+07
100-H-3_Shallow	non-Rad	Lead	7439-92-1	µg/kg	47,557
100-H-3_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	305,799
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	257
100-H-3_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	453
100-H-3_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	14,736
100-H-3_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	143
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	164,000
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	97,682
100-H-3_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	48,985
100-H-3_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	48,349
100-H-35_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	µg/kg	1.05E+07
100-H-35_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	µg/kg	5,000
100-H-35_Shallow_Focused_1	non-Rad	Barium	7440-39-3	µg/kg	99,000
100-H-35_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	µg/kg	371
100-H-35_Shallow_Focused_1	non-Rad	Boron	7440-42-8	µg/kg	2,630
100-H-35_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	µg/kg	172
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	µg/kg	20,700
100-H-35_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	µg/kg	6,590
100-H-35_Shallow_Focused_1	non-Rad	Copper	7440-50-8	µg/kg	15,100
100-H-35_Shallow_Focused_1	non-Rad	Iron	7439-89-6	µg/kg	2.02E+07
100-H-35_Shallow_Focused_1	non-Rad	Lead	7439-92-1	µg/kg	5,880
100-H-35_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	µg/kg	322,000
100-H-35_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	µg/kg	328
100-H-35_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	µg/kg	17,100
100-H-35_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	µg/kg	43,600
100-H-35_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	µg/kg	47,400
100-H-35_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	µg/kg	9.82E+06
100-H-35_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	µg/kg	4,720
100-H-35_Shallow_Focused_2	non-Rad	Barium	7440-39-3	µg/kg	86,300
100-H-35_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	µg/kg	330
100-H-35_Shallow_Focused_2	non-Rad	Boron	7440-42-8	µg/kg	1,930
100-H-35_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	µg/kg	114
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	µg/kg	20,900
100-H-35_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	µg/kg	7,100
100-H-35_Shallow_Focused_2	non-Rad	Copper	7440-50-8	µg/kg	15,300
100-H-35_Shallow_Focused_2	non-Rad	Iron	7439-89-6	µg/kg	1.99E+07
100-H-35_Shallow_Focused_2	non-Rad	Lead	7439-92-1	µg/kg	10,500
100-H-35_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	µg/kg	309,000
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	µg/kg	102
100-H-35_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	µg/kg	428
100-H-35_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	µg/kg	18,600
100-H-35_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	µg/kg	1,280
100-H-35_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	µg/kg	41,600
100-H-35_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	µg/kg	48,000
100-H-35_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.76
100-H-35_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	0.058
100-H-35_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.61
100-H-35_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	µg/kg	7.20E+06
100-H-35_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	µg/kg	18,500
100-H-35_Shallow_Focused_3	non-Rad	Barium	7440-39-3	µg/kg	62,600
100-H-35_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	µg/kg	200
100-H-35_Shallow_Focused_3	non-Rad	Boron	7440-42-8	µg/kg	1,100
100-H-35_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	µg/kg	154
100-H-35_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	µg/kg	14,800
100-H-35_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	µg/kg	5,400
100-H-35_Shallow_Focused_3	non-Rad	Copper	7440-50-8	µg/kg	13,400
100-H-35_Shallow_Focused_3	non-Rad	Iron	7439-89-6	µg/kg	1.60E+07
100-H-35_Shallow_Focused_3	non-Rad	Lead	7439-92-1	µg/kg	25,200
100-H-35_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	µg/kg	253,000
100-H-35_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	µg/kg	323
100-H-35_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	µg/kg	13,700
100-H-35_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	µg/kg	43,500
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	µg/kg	94,200
100-H-37_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	8.60E+06
100-H-37_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	13,000
100-H-37_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	71,000
100-H-37_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	970
100-H-37_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	82
100-H-37_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,000
100-H-37_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,100

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-H-37_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	16,000
100-H-37_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.80E+07
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	54,000
100-H-37_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	290,000
100-H-37_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	19
100-H-37_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	1,200
100-H-37_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,000
100-H-37_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	3,423
100-H-37_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	43,000
100-H-37_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	46,000
100-H-37_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.017
100-H-37_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.14
100-H-37_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2
100-H-4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	3.0
100-H-4_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	1.6
100-H-4_Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	11
100-H-4_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	µg/kg	3.0
100-H-4_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.91E+06
100-H-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	28
100-H-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	13
100-H-4_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	6,985
100-H-4_Shallow	non-Rad	Barium	7440-39-3	µg/kg	56,371
100-H-4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	4.1
100-H-4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	4.3
100-H-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	4.4
100-H-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	2.3
100-H-4_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	251
100-H-4_Shallow	non-Rad	Boron	7440-42-8	µg/kg	3,026
100-H-4_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	125
100-H-4_Shallow	non-Rad	Chlordane	57-74-9	µg/kg	1.4
100-H-4_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,057
100-H-4_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	4.8
100-H-4_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	5,639
100-H-4_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,398
100-H-4_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	8.7
100-H-4_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	3.0
100-H-4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	31
100-H-4_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.90E+07
100-H-4_Shallow	non-Rad	Lead	7439-92-1	µg/kg	27,406
100-H-4_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	263,324
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	408
100-H-4_Shallow	non-Rad	Methylene chloride	75-09-2	µg/kg	5.7
100-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	466
100-H-4_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	10,166
100-H-4_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	6.8
100-H-4_Shallow	non-Rad	Selenium	7782-49-2	µg/kg	391
100-H-4_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	30,792
100-H-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,620
100-H-4_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	50,477
100-H-4_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	36,149
100-H-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.7
100-H-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.1
100-H-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.88
100-H-4_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	2.1
100-H-4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	51
100-H-4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.02E+06
100-H-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	420
100-H-4_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	µg/kg	14
100-H-4_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	73
100-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	8,800
100-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	163,000
100-H-4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	75
100-H-4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	53
100-H-4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	44
100-H-4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	33
100-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	310
100-H-4_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg	2.4
100-H-4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	27
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	19,400
100-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	260
100-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	17,500
100-H-4_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	41
100-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,900
100-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	25,300
100-H-4_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	6.6
100-H-4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	17
100-H-4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	49
100-H-4_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	4.2
100-H-4_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	20
100-H-4_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.24E+07
100-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	27,400
100-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	364,000
100-H-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	20
100-H-4_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	µg/kg	1.9
100-H-4_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	14
100-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	730
100-H-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	15,200
100-H-4_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	46
100-H-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	µg/kg	410
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	2,300
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	188,000
100-H-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	µg/kg	10,100
100-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	51,500

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	62,500
100-H-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.5
100-H-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.3
100-H-40_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.96E+06
100-H-40_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	2,160
100-H-40_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	7,830
100-H-40_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	68,600
100-H-40_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	19
100-H-40_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	29
100-H-40_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	133
100-H-40_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	1.8
100-H-40_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	225
100-H-40_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	2,840
100-H-40_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	469
100-H-40_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,900
100-H-40_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	44
100-H-40_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,590
100-H-40_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	25,700
100-H-40_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	4.1
100-H-40_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	13
100-H-40_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	854
100-H-40_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	31
100-H-40_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.95E+07
100-H-40_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	24,400
100-H-40_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	325,000
100-H-40_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	80
100-H-40_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	961
100-H-40_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	13,400
100-H-40_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	24
100-H-40_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	170,000
100-H-40_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	45,300
100-H-40_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	83,400
100-H-41_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	µg/kg	501
100-H-41_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	344
100-H-41_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.83E+06
100-H-41_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg	341
100-H-41_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	8,020
100-H-41_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	86,200
100-H-41_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	1,110
100-H-41_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	971
100-H-41_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	1,270
100-H-41_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	396
100-H-41_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	298
100-H-41_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,110
100-H-41_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	88
100-H-41_Shallow_Focused	non-Rad	Carbazole	86-74-8	µg/kg	3,740
100-H-41_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	18,500
100-H-41_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	854
100-H-41_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,070
100-H-41_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,200
100-H-41_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	123
100-H-41_Shallow_Focused	non-Rad	Dibenzofuran	132-64-9	µg/kg	1,630
100-H-41_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	2,310
100-H-41_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	200
100-H-41_Shallow_Focused	non-Rad	Fluoride	16984-48-8	µg/kg	500
100-H-41_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	200
100-H-41_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	593
100-H-41_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.83E+07
100-H-41_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	7,690
100-H-41_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	281,000
100-H-41_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	237
100-H-41_Shallow_Focused	non-Rad	Naphthalene	91-20-3	µg/kg	622
100-H-41_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	15,300
100-H-41_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	1,530
100-H-41_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	40,900
100-H-41_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	46,500
100-H-45_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.06E+06
100-H-45_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	288
100-H-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,430
100-H-45_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	32,900
100-H-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	129
100-H-45_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	584
100-H-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	54
100-H-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,910
100-H-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	4,180
100-H-45_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	10,500
100-H-45_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.39E+07
100-H-45_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	1,870
100-H-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	227,000
100-H-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	262
100-H-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	7,780
100-H-45_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,080
100-H-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	42,600
100-H-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	28,200
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	5.2
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	2.5
100-H-49:2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	213
100-H-49:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.45E+06
100-H-49:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg	13
100-H-49:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	332
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	µg/kg	52
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	48
100-H-49:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	8,910

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-H-49:2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	175,000
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	20
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	34
100-H-49:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	88
100-H-49:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	17
100-H-49:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	337
100-H-49:2_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg	3.1
100-H-49:2_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	5,660
100-H-49:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	255
100-H-49:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	18,800
100-H-49:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	316
100-H-49:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,820
100-H-49:2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	27,200
100-H-49:2_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	24
100-H-49:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	248
100-H-49:2_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	89
100-H-49:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	51
100-H-49:2_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.98E+07
100-H-49:2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	46,200
100-H-49:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	291,000
100-H-49:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	13
100-H-49:2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	µg/kg	1.6
100-H-49:2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	10
100-H-49:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	489
100-H-49:2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	µg/kg	115
100-H-49:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	16,600
100-H-49:2_Shallow_Focused	non-Rad	Nitrate	14797-55-8	µg/kg	4,400
100-H-49:2_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,360
100-H-49:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	41
100-H-49:2_Shallow_Focused	non-Rad	Silver	7440-22-4	µg/kg	547
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	63,800
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	121,000
100-H-49:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	48,900
100-H-49:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	96,700
100-H-49:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.6
100-H-49:2_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.12
100-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	µg/kg	33
100-H-5_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	5,900
100-H-5_Deep	non-Rad	Chromium	7440-47-3	µg/kg	10,600
100-H-5_Deep	non-Rad	Lead	7439-92-1	µg/kg	4,200
100-H-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,363
100-H-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.43
100-H-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.46
100-H-5_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	4,586
100-H-5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,199
100-H-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	12,871
100-H-5_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	72
100-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,869
100-H-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.072
100-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.63
100-H-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.18
100-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62
100-H-50_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	7.70E+06
100-H-50_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	4,860
100-H-50_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	62,000
100-H-50_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	272
100-H-50_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	2,420
100-H-50_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	140
100-H-50_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	15,100
100-H-50_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,130
100-H-50_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	13,700
100-H-50_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.88E+07
100-H-50_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	12,600
100-H-50_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	284,000
100-H-50_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	34
100-H-50_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	361
100-H-50_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	13,600
100-H-50_Shallow_Focused	non-Rad	Selenium	7782-49-2	µg/kg	257
100-H-50_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	53,200
100-H-50_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	45,100
100-H-51:4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	2.7
100-H-51:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.90E+06
100-H-51:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	5,940
100-H-51:4_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	112,000
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	1.9
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	4.9
100-H-51:4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	5.7
100-H-51:4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	2.2
100-H-51:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	345
100-H-51:4_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,650
100-H-51:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	810
100-H-51:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	13,500
100-H-51:4_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	1.0
100-H-51:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,450
100-H-51:4_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	14,700
100-H-51:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	1.3
100-H-51:4_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.32E+07
100-H-51:4_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	6,470
100-H-51:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	504,000
100-H-51:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	45
100-H-51:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	401
100-H-51:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,600
100-H-51:4_Shallow_Focused	non-Rad	Selenium	7782-49-2	µg/kg	276

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-H-51:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	46,300
100-H-51:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	79,100
100-H-51:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	37
100-H-51:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	8.77E+06
100-H-51:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg	0.92
100-H-51:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,470
100-H-51:5_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	199,000
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	3.0
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	6.5
100-H-51:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	6.8
100-H-51:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	4.0
100-H-51:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	383
100-H-51:5_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	26,300
100-H-51:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	133
100-H-51:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	11,400
100-H-51:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	16
100-H-51:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	5,800
100-H-51:5_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	13,000
100-H-51:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	3.9
100-H-51:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	9.2
100-H-51:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	10
100-H-51:5_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.81E+07
100-H-51:5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	6,250
100-H-51:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	290,000
100-H-51:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	440
100-H-51:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	µg/kg	16
100-H-51:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,700
100-H-51:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	5.7
100-H-51:5_Shallow_Focused	non-Rad	Selenium	7782-49-2	µg/kg	221
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	19,900
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	47,700
100-H-51:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	38,600
100-H-51:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	36,300
100-H-53_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	7.4
100-H-53_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.76E+06
100-H-53_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	5,580
100-H-53_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	52,300
100-H-53_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	61
100-H-53_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	8.5
100-H-53_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	7.8
100-H-53_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	3.3
100-H-53_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	231
100-H-53_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,310
100-H-53_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	397
100-H-53_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	15,900
100-H-53_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	22
100-H-53_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	10,500
100-H-53_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,800
100-H-53_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	1.1
100-H-53_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	82
100-H-53_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	1.8
100-H-53_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,520
100-H-53_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	24
100-H-53_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.66E+07
100-H-53_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	35,900
100-H-53_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	300,000
100-H-53_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	3,840
100-H-53_Shallow_Focused	non-Rad	Naphthalene	91-20-3	µg/kg	6.6
100-H-53_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	13,200
100-H-53_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	42
100-H-53_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	35,100
100-H-53_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	79,900
100-H-53_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15
100-H-7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.84E+06
100-H-7_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	470
100-H-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,600
100-H-7_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	47,200
100-H-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	330
100-H-7_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	930
100-H-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	110
100-H-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,700
100-H-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,800
100-H-7_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,100
100-H-7_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.98E+07
100-H-7_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	8,900
100-H-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	264,000
100-H-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	620
100-H-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	9,900
100-H-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	57,100
100-H-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	39,200
100-H-8_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.39E+06
100-H-8_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	520
100-H-8_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	7,300
100-H-8_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	68,100
100-H-8_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	440
100-H-8_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,200
100-H-8_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	340
100-H-8_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	13,500
100-H-8_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,300
100-H-8_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	23,400
100-H-8_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.45E+07
100-H-8_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	46,800
100-H-8_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	340,000

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
100-H-8_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	310
100-H-8_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	930
100-H-8_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	15,200
100-H-8_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	63,900
100-H-8_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	53,500
116-H-1_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	6,282
116-H-1_Deep	non-Rad	Lead	7439-92-1	µg/kg	23,100
116-H-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	47
116-H-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.1
116-H-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	58
116-H-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	6.6
116-H-1_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.028
116-H-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6
116-H-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8
116-H-1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	6,625
116-H-1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,151
116-H-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	502
116-H-1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	12,408
116-H-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42
116-H-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.69
116-H-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.15
116-H-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068
116-H-1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.74
116-H-3_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	3,900
116-H-3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,960
116-H-3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	10
116-H-3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.84
116-H-3_Deep	Rad	Europium-152	14683-23-9	pCi/g	23
116-H-3_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.1
116-H-3_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	8,300
116-H-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.053
116-H-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.055
116-H-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.66
116-H-5_Deep	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	µg/kg	2.1
116-H-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	3.1
116-H-5_Deep	non-Rad	Aluminum	7429-90-5	µg/kg	6.91E+06
116-H-5_Deep	non-Rad	Anthracene	120-12-7	µg/kg	5.1
116-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	µg/kg	7.3
116-H-5_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	5,372
116-H-5_Deep	non-Rad	Barium	7440-39-3	µg/kg	67,200
116-H-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	38
116-H-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	41
116-H-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	51
116-H-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	30
116-H-5_Deep	non-Rad	Beryllium	7440-41-7	µg/kg	104
116-H-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	84
116-H-5_Deep	non-Rad	Boron	7440-42-8	µg/kg	1,200
116-H-5_Deep	non-Rad	Cadmium	7440-43-9	µg/kg	88
116-H-5_Deep	non-Rad	Chromium	7440-47-3	µg/kg	11,448
116-H-5_Deep	non-Rad	Chrysene	218-01-9	µg/kg	45
116-H-5_Deep	non-Rad	Cobalt	7440-48-4	µg/kg	6,209
116-H-5_Deep	non-Rad	Copper	7440-50-8	µg/kg	15,413
116-H-5_Deep	non-Rad	Fluoranthene	206-44-0	µg/kg	69
116-H-5_Deep	non-Rad	Fluoride	16984-48-8	µg/kg	1,092
116-H-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	35
116-H-5_Deep	non-Rad	Iron	7439-89-6	µg/kg	1.69E+07
116-H-5_Deep	non-Rad	Lead	7439-92-1	µg/kg	16,378
116-H-5_Deep	non-Rad	Manganese	7439-96-5	µg/kg	254,139
116-H-5_Deep	non-Rad	Mercury	7439-97-6	µg/kg	20
116-H-5_Deep	non-Rad	Molybdenum	7439-98-7	µg/kg	870
116-H-5_Deep	non-Rad	Nickel	7440-02-0	µg/kg	11,568
116-H-5_Deep	non-Rad	Nitrate	14797-55-8	µg/kg	132,545
116-H-5_Deep	non-Rad	Nitrite	14797-65-0	µg/kg	1,300
116-H-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	23,726
116-H-5_Deep	non-Rad	Pyrene	129-00-0	µg/kg	77
116-H-5_Deep	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	81,718
116-H-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,878
116-H-5_Deep	non-Rad	Vanadium	7440-62-2	µg/kg	46,454
116-H-5_Deep	non-Rad	Zinc	7440-66-6	µg/kg	45,768
116-H-5_Deep	Rad	Carbon-14	14762-75-5	pCi/g	1.3
116-H-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.59
116-H-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.15
116-H-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.3
116-H-5_Deep	Rad	Nickel-63	13981-37-8	pCi/g	13
116-H-5_Deep	Rad	Tritium	10028-17-8	pCi/g	3.3
116-H-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.66
116-H-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.63
116-H-5_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.45
116-H-5_Overburden	non-Rad	Acenaphthene	83-32-9	µg/kg	22
116-H-5_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	6.51E+06
116-H-5_Overburden	non-Rad	Anthracene	120-12-7	µg/kg	36
116-H-5_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	406
116-H-5_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	5,801
116-H-5_Overburden	non-Rad	Barium	7440-39-3	µg/kg	53,734
116-H-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	47
116-H-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	51
116-H-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	52
116-H-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	24
116-H-5_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	173
116-H-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	120
116-H-5_Overburden	non-Rad	Boron	7440-42-8	µg/kg	1,458
116-H-5_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	68
116-H-5_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	11,538

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-H-5_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	69
116-H-5_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	5,586
116-H-5_Overburden	non-Rad	Copper	7440-50-8	µg/kg	13,591
116-H-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	6.4
116-H-5_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	130
116-H-5_Overburden	non-Rad	Fluorene	86-73-7	µg/kg	7.6
116-H-5_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	799
116-H-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	165
116-H-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	34
116-H-5_Overburden	non-Rad	Iron	7439-89-6	µg/kg	1.68E+07
116-H-5_Overburden	non-Rad	Lead	7439-92-1	µg/kg	16,326
116-H-5_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	258,053
116-H-5_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	275
116-H-5_Overburden	non-Rad	Naphthalene	91-20-3	µg/kg	25
116-H-5_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	10,808
116-H-5_Overburden	non-Rad	Nitrate	14797-55-8	µg/kg	9,911
116-H-5_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	960
116-H-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	2,151
116-H-5_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	100
116-H-5_Overburden	non-Rad	Silver	7440-22-4	µg/kg	156
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	3,200
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	6,500
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	9,996
116-H-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,677
116-H-5_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	44,444
116-H-5_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	43,379
116-H-5_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.3
116-H-5_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	1.4
116-H-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	3.0
116-H-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.61
116-H-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.56
116-H-5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.45
116-H-5_Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	2.8
116-H-5_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	7.18E+06
116-H-5_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	3.7
116-H-5_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	378
116-H-5_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	3.9
116-H-5_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	5,405
116-H-5_Shallow	non-Rad	Barium	7440-39-3	µg/kg	61,357
116-H-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	11
116-H-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	11
116-H-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	14
116-H-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	5.8
116-H-5_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	202
116-H-5_Shallow	non-Rad	Boron	7440-42-8	µg/kg	2,169
116-H-5_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	80
116-H-5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	13,831
116-H-5_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	11
116-H-5_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	6,335
116-H-5_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,502
116-H-5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	2.6
116-H-5_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	27
116-H-5_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	1.6
116-H-5_Shallow	non-Rad	Fluoride	16984-48-8	µg/kg	903
116-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	60
116-H-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	9.9
116-H-5_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.87E+07
116-H-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	14,110
116-H-5_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	270,919
116-H-5_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	18
116-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	280
116-H-5_Shallow	non-Rad	Naphthalene	91-20-3	µg/kg	15
116-H-5_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,834
116-H-5_Shallow	non-Rad	Nitrate	14797-55-8	µg/kg	8,424
116-H-5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	1,100
116-H-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,266
116-H-5_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	26
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	2,600
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	8,100
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	14,314
116-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,966
116-H-5_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	48,734
116-H-5_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	48,292
116-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.0
116-H-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	19
116-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4
116-H-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	4.1
116-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.72
116-H-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.20
116-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.66
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	11
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	5.3
116-H-5_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	µg/kg	7.33E+06
116-H-5_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	µg/kg	87
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	µg/kg	15
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	µg/kg	10
116-H-5_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	µg/kg	10,280
116-H-5_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	µg/kg	75,287
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	76
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	59
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	64
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	29
116-H-5_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	µg/kg	142

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
116-H-5_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	122
116-H-5_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	µg/kg	2,700
116-H-5_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	µg/kg	112
116-H-5_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	µg/kg	10,981
116-H-5_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	µg/kg	59
116-H-5_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	µg/kg	6,774
116-H-5_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	µg/kg	14,733
116-H-5_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	26
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	µg/kg	400
116-H-5_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	µg/kg	57
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoride	16984-48-8	µg/kg	1,166
116-H-5_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	42
116-H-5_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	µg/kg	1.78E+07
116-H-5_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	µg/kg	45,682
116-H-5_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	µg/kg	280,936
116-H-5_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	µg/kg	12
116-H-5_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	330
116-H-5_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	µg/kg	10,771
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	44,800
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	50,900
116-H-5_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	µg/kg	137
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	7,400
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	20,867
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	97,039
116-H-5_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	703
116-H-5_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	µg/kg	47,752
116-H-5_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	µg/kg	40,271
116-H-5_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.068
116-H-5_Staging Pile Area Footprint	Rad	Technetium-99	14133-76-7	pCi/g	0.81
116-H-5_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.23
116-H-5_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.20
116-H-7_Deep	non-Rad	Aroclor-1242	53469-21-9	µg/kg	94
116-H-7_Deep	non-Rad	Aroclor-1260	11096-82-5	µg/kg	256
116-H-7_Deep	non-Rad	Arsenic	7440-38-2	µg/kg	3,472
116-H-7_Deep	non-Rad	Chromium	7440-47-3	µg/kg	55,857
116-H-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	4,795
116-H-7_Deep	non-Rad	Lead	7439-92-1	µg/kg	9,132
116-H-7_Deep	non-Rad	Mercury	7439-97-6	µg/kg	1,002
116-H-7_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,347
116-H-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22
116-H-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	6.5
116-H-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	65
116-H-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.7
116-H-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	316
116-H-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.099
116-H-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.86
116-H-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.5
116-H-7_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47
116-H-7_Deep	Rad	Uranium-238	U-238	pCi/g	0.45
116-H-7_Overburden	non-Rad	Aroclor-1260	11096-82-5	µg/kg	77
116-H-7_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	4,172
116-H-7_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	11,042
116-H-7_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	590
116-H-7_Overburden	non-Rad	Lead	7439-92-1	µg/kg	9,806
116-H-7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,551
116-H-7_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.10
116-H-7_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.45
116-H-7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.52
116-H-7_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	660
116-H-7_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	5,540
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	19,656
116-H-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	958
116-H-7_Shallow	non-Rad	Lead	7439-92-1	µg/kg	20,249
116-H-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,583
116-H-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12
116-H-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.68
116-H-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.54
116-H-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53
116-H-9_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	7.65E+06
116-H-9_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	435
116-H-9_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	23
116-H-9_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	9.6
116-H-9_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,605
116-H-9_Shallow	non-Rad	Barium	7440-39-3	µg/kg	68,597
116-H-9_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	272
116-H-9_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,253
116-H-9_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	100
116-H-9_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,945
116-H-9_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	6,313
116-H-9_Shallow	non-Rad	Copper	7440-50-8	µg/kg	13,904
116-H-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	262
116-H-9_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.82E+07
116-H-9_Shallow	non-Rad	Lead	7439-92-1	µg/kg	6,609
116-H-9_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	286,352
116-H-9_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	15
116-H-9_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	243
116-H-9_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	10,510
116-H-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,072
116-H-9_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	42,911
116-H-9_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	37,067
116-H-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.027
116-H-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67
116-H-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.70

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-H-1:1_Overburden	non-Rad	Acenaphthene	83-32-9	µg/kg	75
118-H-1:1_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	9.43E+06
118-H-1:1_Overburden	non-Rad	Anthracene	120-12-7	µg/kg	8.2
118-H-1:1_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	489
118-H-1:1_Overburden	non-Rad	Aroclor-1254	11097-69-1	µg/kg	8.5
118-H-1:1_Overburden	non-Rad	Aroclor-1260	11096-82-5	µg/kg	10
118-H-1:1_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	5,698
118-H-1:1_Overburden	non-Rad	Barium	7440-39-3	µg/kg	101,322
118-H-1:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	34
118-H-1:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	57
118-H-1:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	33
118-H-1:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	19
118-H-1:1_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	288
118-H-1:1_Overburden	non-Rad	Boron	7440-42-8	µg/kg	10,532
118-H-1:1_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	76
118-H-1:1_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	13,618
118-H-1:1_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	51
118-H-1:1_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,752
118-H-1:1_Overburden	non-Rad	Copper	7440-50-8	µg/kg	16,317
118-H-1:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	4.6
118-H-1:1_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	134
118-H-1:1_Overburden	non-Rad	Fluorene	86-73-7	µg/kg	6.8
118-H-1:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	79
118-H-1:1_Overburden	non-Rad	Iron	7439-89-6	µg/kg	2.30E+07
118-H-1:1_Overburden	non-Rad	Lead	7439-92-1	µg/kg	17,746
118-H-1:1_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	344,387
118-H-1:1_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	11
118-H-1:1_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	366
118-H-1:1_Overburden	non-Rad	Naphthalene	91-20-3	µg/kg	13
118-H-1:1_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	13,289
118-H-1:1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	4,753
118-H-1:1_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	117
118-H-1:1_Overburden	non-Rad	Selenium	7782-49-2	µg/kg	326
118-H-1:1_Overburden	non-Rad	Silver	7440-22-4	µg/kg	224
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	8,992
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	15,814
118-H-1:1_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	58,281
118-H-1:1_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	44,523
118-H-1:1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.4
118-H-1:1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.061
118-H-1:1_Shallow_1	non-Rad	Acenaphthene	83-32-9	µg/kg	2.5
118-H-1:1_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	6.57E+06
118-H-1:1_Shallow_1	non-Rad	Anthracene	120-12-7	µg/kg	3.6
118-H-1:1_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,459
118-H-1:1_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	49,873
118-H-1:1_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	11
118-H-1:1_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	9.8
118-H-1:1_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	8.3
118-H-1:1_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	5.1
118-H-1:1_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	181
118-H-1:1_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,456
118-H-1:1_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	50
118-H-1:1_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	10,810
118-H-1:1_Shallow_1	non-Rad	Chrysene	218-01-9	µg/kg	11
118-H-1:1_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	5,630
118-H-1:1_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	12,893
118-H-1:1_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	3.4
118-H-1:1_Shallow_1	non-Rad	Fluoranthene	206-44-0	µg/kg	17
118-H-1:1_Shallow_1	non-Rad	Fluorene	86-73-7	µg/kg	1.5
118-H-1:1_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	9.5
118-H-1:1_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	1.65E+07
118-H-1:1_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	6,609
118-H-1:1_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	252,370
118-H-1:1_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	18
118-H-1:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	249
118-H-1:1_Shallow_1	non-Rad	Naphthalene	91-20-3	µg/kg	3.3
118-H-1:1_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	10,583
118-H-1:1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	5,340
118-H-1:1_Shallow_1	non-Rad	Pyrene	129-00-0	µg/kg	36
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	µg/kg	1,000
118-H-1:1_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	8,315
118-H-1:1_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	43,653
118-H-1:1_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	33,577
118-H-1:1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	1.9
118-H-1:1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.17
118-H-1:1_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.19
118-H-1:1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.21
118-H-1:1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.8
118-H-1:1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5
118-H-1:1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	3.4
118-H-1:1_Shallow_2	non-Rad	Acenaphthene	83-32-9	µg/kg	1.8
118-H-1:1_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	6.69E+06
118-H-1:1_Shallow_2	non-Rad	Anthracene	120-12-7	µg/kg	3.0
118-H-1:1_Shallow_2	non-Rad	Antimony	7440-36-0	µg/kg	257
118-H-1:1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	µg/kg	5.1
118-H-1:1_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	µg/kg	3.7
118-H-1:1_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	2,887
118-H-1:1_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	51,004
118-H-1:1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	9.1
118-H-1:1_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	3.3
118-H-1:1_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	7.7
118-H-1:1_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	4.3
118-H-1:1_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	182

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-H-1:1_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,763
118-H-1:1_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	114
118-H-1:1_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	12,051
118-H-1:1_Shallow_2	non-Rad	Chrysene	218-01-9	µg/kg	3.7
118-H-1:1_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	5,566
118-H-1:1_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	14,353
118-H-1:1_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	1.5
118-H-1:1_Shallow_2	non-Rad	Fluoranthene	206-44-0	µg/kg	21
118-H-1:1_Shallow_2	non-Rad	Fluorene	86-73-7	µg/kg	1.5
118-H-1:1_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	3.9
118-H-1:1_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	1.69E+07
118-H-1:1_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	3,641
118-H-1:1_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	254,153
118-H-1:1_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	57
118-H-1:1_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	237
118-H-1:1_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	11,937
118-H-1:1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,950
118-H-1:1_Shallow_2	non-Rad	Pyrene	129-00-0	µg/kg	9.2
118-H-1:1_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	3,880
118-H-1:1_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	45,883
118-H-1:1_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	34,227
118-H-1:1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.8
118-H-1:1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.52
118-H-1:1_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.11
118-H-1:1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.26
118-H-1:1_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	8.6
118-H-1:1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3
118-H-1:1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	4.0
118-H-1:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	6.9
118-H-1:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	7.20E+06
118-H-1:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	226
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	µg/kg	29
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	µg/kg	28
118-H-1:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	4,110
118-H-1:1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	98,300
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	4.5
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	5.3
118-H-1:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	9.7
118-H-1:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	2.4
118-H-1:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	206
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	4,160
118-H-1:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	306
118-H-1:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	22,000
118-H-1:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	25
118-H-1:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	7,740
118-H-1:1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	18,700
118-H-1:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	0.89
118-H-1:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	17
118-H-1:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	15
118-H-1:1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.78E+07
118-H-1:1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	10,900
118-H-1:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	295,000
118-H-1:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	202
118-H-1:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	341
118-H-1:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	µg/kg	8.2
118-H-1:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,600
118-H-1:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	3,480
118-H-1:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	11
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	17,500
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	30,300
118-H-1:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	44,900
118-H-1:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	40,700
118-H-1:1_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	2.1
118-H-1:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.0
118-H-1:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.062
118-H-1:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.30
118-H-1:1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	11
118-H-1:1_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35
118-H-1:1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4
118-H-1:1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	8.7
118-H-1:1_Staging Pile Area Footprint	non-Rad	Acenaphthene	83-32-9	µg/kg	5.3
118-H-1:1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	µg/kg	6.42E+06
118-H-1:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	µg/kg	3,372
118-H-1:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	µg/kg	47,506
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	1.6
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	1.9
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	2.2
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	1.3
118-H-1:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	µg/kg	182
118-H-1:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	µg/kg	1,217
118-H-1:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	µg/kg	87
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	µg/kg	12,039
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	µg/kg	2.1
118-H-1:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	µg/kg	5,255
118-H-1:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	µg/kg	13,136
118-H-1:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	µg/kg	3.8
118-H-1:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	1.8
118-H-1:1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	µg/kg	1.64E+07
118-H-1:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	µg/kg	5,802
118-H-1:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	µg/kg	254,283
118-H-1:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	µg/kg	32
118-H-1:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	µg/kg	223
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	µg/kg	10,780

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	4,861
118-H-1:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	µg/kg	5.7
118-H-1:1_Staging Pile Area Footprint	non-Rad	Silver	7440-22-4	µg/kg	131
118-H-1:1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	7,617
118-H-1:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	µg/kg	42,420
118-H-1:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	µg/kg	32,172
118-H-1:1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	1.1
118-H-1:1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.69
118-H-1:1_Staging Pile Area Footprint	Rad	Cobalt-60	10198-40-0	pCi/g	0.13
118-H-1:1_Staging Pile Area Footprint	Rad	Europium-152	14683-23-9	pCi/g	0.19
118-H-1:1_Staging Pile Area Footprint	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.49
118-H-1:1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	2.7
118-H-1:2_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	1.05E+07
118-H-1:2_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	12
118-H-1:2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	4,301
118-H-1:2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	88,725
118-H-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	28
118-H-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	33
118-H-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	24
118-H-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	40
118-H-1:2_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	207
118-H-1:2_Shallow	non-Rad	Boron	7440-42-8	µg/kg	2,323
118-H-1:2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	136
118-H-1:2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	12,971
118-H-1:2_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	33
118-H-1:2_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	8,234
118-H-1:2_Shallow	non-Rad	Copper	7440-50-8	µg/kg	17,149
118-H-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	76
118-H-1:2_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	7.3
118-H-1:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	544
118-H-1:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	68
118-H-1:2_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.93E+07
118-H-1:2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	10,968
118-H-1:2_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	340,196
118-H-1:2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	10
118-H-1:2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	300
118-H-1:2_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	13,022
118-H-1:2_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	84
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	7,600
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	4,042
118-H-1:2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	44,407
118-H-1:2_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	43,743
118-H-1:2_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.064
118-H-1:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	6.95E+06
118-H-1:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg	7.6
118-H-1:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,700
118-H-1:2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	53,700
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	43
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	33
118-H-1:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	35
118-H-1:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	16
118-H-1:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	110
118-H-1:2_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,300
118-H-1:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	120
118-H-1:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	12,000
118-H-1:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	35
118-H-1:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,600
118-H-1:2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,100
118-H-1:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	83
118-H-1:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	369
118-H-1:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	26
118-H-1:2_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.55E+07
118-H-1:2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	11,700
118-H-1:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	273,000
118-H-1:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,200
118-H-1:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	52
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	2,400
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	4,100
118-H-1:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	37,100
118-H-1:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	36,800
118-H-1:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	0.81
118-H-2_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.95E+06
118-H-2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	5,041
118-H-2_Shallow	non-Rad	Barium	7440-39-3	µg/kg	64,447
118-H-2_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	224
118-H-2_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,365
118-H-2_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	86
118-H-2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,049
118-H-2_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	5,814
118-H-2_Shallow	non-Rad	Copper	7440-50-8	µg/kg	13,954
118-H-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	171
118-H-2_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.72E+07
118-H-2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	15,481
118-H-2_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	266,309
118-H-2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	14
118-H-2_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	309
118-H-2_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,619
118-H-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,689
118-H-2_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	41,613
118-H-2_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	34,224
118-H-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.30
118-H-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.21
118-H-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	13

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-H-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52
118-H-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.032
118-H-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57
118-H-3_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	9.41E+06
118-H-3_Shallow_1	non-Rad	Antimony	7440-36-0	µg/kg	743
118-H-3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	µg/kg	55
118-H-3_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	15,852
118-H-3_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	83,791
118-H-3_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	321
118-H-3_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	3,104
118-H-3_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	153
118-H-3_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	13,218
118-H-3_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	6,931
118-H-3_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	23,535
118-H-3_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	80
118-H-3_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	2.03E+07
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	57,642
118-H-3_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	345,494
118-H-3_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	11
118-H-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	1,412
118-H-3_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	14,747
118-H-3_Shallow_1	non-Rad	Silver	7440-22-4	µg/kg	417
118-H-3_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,864
118-H-3_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	45,491
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	132,913
118-H-3_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.69
118-H-3_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	0.033
118-H-3_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.63
118-H-3_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	8.49E+06
118-H-3_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	µg/kg	9.4
118-H-3_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	3,014
118-H-3_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	73,070
118-H-3_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	261
118-H-3_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	2,578
118-H-3_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	97
118-H-3_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	11,622
118-H-3_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	6,141
118-H-3_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	14,147
118-H-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	400
118-H-3_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	1.81E+07
118-H-3_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	6,789
118-H-3_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	300,387
118-H-3_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	15
118-H-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	280
118-H-3_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	10,769
118-H-3_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,910
118-H-3_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	45,329
118-H-3_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	38,757
118-H-3_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.61
118-H-3_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.64
118-H-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	7.10E+06
118-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	4,800
118-H-3_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	56,700
118-H-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	211
118-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	2,630
118-H-3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	81
118-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,110
118-H-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	5,690
118-H-3_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	15,100
118-H-3_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.66E+07
118-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	11,600
118-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	255,000
118-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	363
118-H-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	8,550
118-H-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,819
118-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	48,300
118-H-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	36,900
118-H-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.23
118-H-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.53
118-H-3_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	8.8
118-H-3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1
118-H-3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.95
118-H-4_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	7.89E+06
118-H-4_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,442
118-H-4_Shallow	non-Rad	Barium	7440-39-3	µg/kg	66,445
118-H-4_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	228
118-H-4_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,534
118-H-4_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	132
118-H-4_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	11,715
118-H-4_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	5,894
118-H-4_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,054
118-H-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	90
118-H-4_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.84E+07
118-H-4_Shallow	non-Rad	Lead	7439-92-1	µg/kg	9,065
118-H-4_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	279,088
118-H-4_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	22
118-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	437
118-H-4_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,015
118-H-4_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	45,964
118-H-4_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	38,843
118-H-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.1
118-H-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.10
118-H-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.3

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-H-4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.70E+06
118-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	2,100
118-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	46,300
118-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	148
118-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,440
118-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	113
118-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,900
118-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	4,520
118-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	12,600
118-H-4_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.42E+07
118-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,330
118-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	222,000
118-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	424
118-H-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	8,730
118-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	39,000
118-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	40,300
118-H-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.25
118-H-4_Staging Pile Area	non-Rad	Aluminum	7429-90-5	µg/kg	6.03E+06
118-H-4_Staging Pile Area	non-Rad	Arsenic	7440-38-2	µg/kg	3,913
118-H-4_Staging Pile Area	non-Rad	Barium	7440-39-3	µg/kg	63,087
118-H-4_Staging Pile Area	non-Rad	Beryllium	7440-41-7	µg/kg	176
118-H-4_Staging Pile Area	non-Rad	Boron	7440-42-8	µg/kg	2,987
118-H-4_Staging Pile Area	non-Rad	Cadmium	7440-43-9	µg/kg	170
118-H-4_Staging Pile Area	non-Rad	Chromium	7440-47-3	µg/kg	9,780
118-H-4_Staging Pile Area	non-Rad	Cobalt	7440-48-4	µg/kg	6,100
118-H-4_Staging Pile Area	non-Rad	Copper	7440-50-8	µg/kg	14,864
118-H-4_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	150
118-H-4_Staging Pile Area	non-Rad	Iron	7439-89-6	µg/kg	1.80E+07
118-H-4_Staging Pile Area	non-Rad	Lead	7439-92-1	µg/kg	28,136
118-H-4_Staging Pile Area	non-Rad	Manganese	7439-96-5	µg/kg	258,296
118-H-4_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	µg/kg	482
118-H-4_Staging Pile Area	non-Rad	Nickel	7440-02-0	µg/kg	9,598
118-H-4_Staging Pile Area	non-Rad	Vanadium	7440-62-2	µg/kg	48,115
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	µg/kg	72,799
118-H-4_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.20
118-H-5_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	6.59E+06
118-H-5_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	4,597
118-H-5_Shallow	non-Rad	Barium	7440-39-3	µg/kg	61,388
118-H-5_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	232
118-H-5_Shallow	non-Rad	Boron	7440-42-8	µg/kg	6,246
118-H-5_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	57
118-H-5_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,718
118-H-5_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	5,765
118-H-5_Shallow	non-Rad	Copper	7440-50-8	µg/kg	14,038
118-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	369
118-H-5_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.68E+07
118-H-5_Shallow	non-Rad	Lead	7439-92-1	µg/kg	10,128
118-H-5_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	276,172
118-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	329
118-H-5_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	9,970
118-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,871
118-H-5_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	39,149
118-H-5_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	36,296
118-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.8
118-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36
118-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67
118-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63
118-H-5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.88E+06
118-H-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	4,490
118-H-5_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	46,100
118-H-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	197
118-H-5_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,290
118-H-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	47
118-H-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	10,500
118-H-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	5,490
118-H-5_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	13,700
118-H-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	280
118-H-5_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.57E+07
118-H-5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	9,240
118-H-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	257,000
118-H-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	277
118-H-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	10,600
118-H-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,105
118-H-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	39,400
118-H-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	33,900
118-H-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1
118-H-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.71
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	1,500
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Lead	7439-92-1	µg/kg	22,400
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,286
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	0.27
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	5.0
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.19
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	1.3
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.052
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	15
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.97
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	5.6
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.70
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Uranium-238	U-238	pCi/g	0.77
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Aroclor-1254	11097-69-1	µg/kg	17
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	940
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Lead	7439-92-1	µg/kg	19,900

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,649
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	0.56
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	25
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cesium-137	10045-97-3	pCi/g	20
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	0.26
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	3.4
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	0.43
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Neptunium-237	13994-20-2	pCi/g	0.036
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	43
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.0
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.3
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Tritium	10028-17-8	pCi/g	0.25
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.55
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-235	15117-96-1	pCi/g	0.037
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-238	U-238	pCi/g	0.55
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,396
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Cesium-137	10045-97-3	pCi/g	0.39
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.57
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Tritium	10028-17-8	pCi/g	0.57
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.40
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Uranium-238	U-238	pCi/g	0.47
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Lead	7439-92-1	µg/kg	34,300
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,721
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.30
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.3
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.21
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	5.2
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-154	15585-10-1	pCi/g	0.66
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Neptunium-237	13994-20-2	pCi/g	0.029
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	25
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.40
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.63
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.57
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	0.038
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	0.58
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,542
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	1.2
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.033
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	15
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.59
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.52
118-H-6:4_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	5.37E+06
118-H-6:4_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	3,176
118-H-6:4_Overburden	non-Rad	Barium	7440-39-3	µg/kg	57,934
118-H-6:4_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	167
118-H-6:4_Overburden	non-Rad	Boron	7440-42-8	µg/kg	809
118-H-6:4_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	86
118-H-6:4_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	9,710
118-H-6:4_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	6,242
118-H-6:4_Overburden	non-Rad	Copper	7440-50-8	µg/kg	13,371
118-H-6:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	127
118-H-6:4_Overburden	non-Rad	Iron	7439-89-6	µg/kg	1.82E+07
118-H-6:4_Overburden	non-Rad	Lead	7439-92-1	µg/kg	4,138
118-H-6:4_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	265,613
118-H-6:4_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	24
118-H-6:4_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	327
118-H-6:4_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	10,985
118-H-6:4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,569
118-H-6:4_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	45,939
118-H-6:4_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	38,240
118-H-6:4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.18
118-H-6:4_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.93
118-H-6:4_Overburden	Rad	Neptunium-237	13994-20-2	pCi/g	0.077
118-H-6:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.48
118-H-6:4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47
118-H-6:4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.53
118-H-6:4_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	5.83E+06
118-H-6:4_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	3,849
118-H-6:4_Shallow	non-Rad	Barium	7440-39-3	µg/kg	61,215
118-H-6:4_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	188
118-H-6:4_Shallow	non-Rad	Boron	7440-42-8	µg/kg	633
118-H-6:4_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	100
118-H-6:4_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,218

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-H-6:4_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	6,711
118-H-6:4_Shallow	non-Rad	Copper	7440-50-8	µg/kg	19,414
118-H-6:4_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.90E+07
118-H-6:4_Shallow	non-Rad	Lead	7439-92-1	µg/kg	8,409
118-H-6:4_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	251,118
118-H-6:4_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	442
118-H-6:4_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,521
118-H-6:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,653
118-H-6:4_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	48,568
118-H-6:4_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	40,342
118-H-6:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12
118-H-6:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57
118-H-6:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.56
118-H-6:5_Shallow_1	non-Rad	Acenaphthene	83-32-9	µg/kg	5.8
118-H-6:5_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	1.02E+07
118-H-6:5_Shallow_1	non-Rad	Anthracene	120-12-7	µg/kg	2.8
118-H-6:5_Shallow_1	non-Rad	Antimony	7440-36-0	µg/kg	664
118-H-6:5_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	µg/kg	10
118-H-6:5_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	µg/kg	5.4
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	39,809
118-H-6:5_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	87,997
118-H-6:5_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	23
118-H-6:5_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	24
118-H-6:5_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	26
118-H-6:5_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	13
118-H-6:5_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	319
118-H-6:5_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	2,401
118-H-6:5_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	75
118-H-6:5_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	13,672
118-H-6:5_Shallow_1	non-Rad	Chrysene	218-01-9	µg/kg	19
118-H-6:5_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	7,195
118-H-6:5_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	13,954
118-H-6:5_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	4.2
118-H-6:5_Shallow_1	non-Rad	Fluoranthene	206-44-0	µg/kg	78
118-H-6:5_Shallow_1	non-Rad	Fluorene	86-73-7	µg/kg	2.7
118-H-6:5_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	80
118-H-6:5_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	21
118-H-6:5_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	2.03E+07
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	171,632
118-H-6:5_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	338,381
118-H-6:5_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	485
118-H-6:5_Shallow_1	non-Rad	Naphthalene	91-20-3	µg/kg	16
118-H-6:5_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	12,228
118-H-6:5_Shallow_1	non-Rad	Pyrene	129-00-0	µg/kg	66
118-H-6:5_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	8,426
118-H-6:5_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,998
118-H-6:5_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	50,095
118-H-6:5_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	46,713
118-H-6:5_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	7.1
118-H-6:5_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.18
118-H-6:5_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	0.38
118-H-6:5_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.69
118-H-6:5_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.67
118-H-6:5_Shallow_2	non-Rad	Acenaphthene	83-32-9	µg/kg	24
118-H-6:5_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	8.27E+06
118-H-6:5_Shallow_2	non-Rad	Anthracene	120-12-7	µg/kg	9.7
118-H-6:5_Shallow_2	non-Rad	Antimony	7440-36-0	µg/kg	464
118-H-6:5_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	6,824
118-H-6:5_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	111,681
118-H-6:5_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	98
118-H-6:5_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	69
118-H-6:5_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	204
118-H-6:5_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	62
118-H-6:5_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	239
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	12,190
118-H-6:5_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	88
118-H-6:5_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	11,953
118-H-6:5_Shallow_2	non-Rad	Chrysene	218-01-9	µg/kg	121
118-H-6:5_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	6,641
118-H-6:5_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	15,897
118-H-6:5_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	7.4
118-H-6:5_Shallow_2	non-Rad	Fluoranthene	206-44-0	µg/kg	707
118-H-6:5_Shallow_2	non-Rad	Fluorene	86-73-7	µg/kg	5.6
118-H-6:5_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	60
118-H-6:5_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	41
118-H-6:5_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	1.86E+07
118-H-6:5_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	13,861
118-H-6:5_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	310,415
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	167
118-H-6:5_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	467
118-H-6:5_Shallow_2	non-Rad	Naphthalene	91-20-3	µg/kg	44
118-H-6:5_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	10,980
118-H-6:5_Shallow_2	non-Rad	Pyrene	129-00-0	µg/kg	254
118-H-6:5_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	38,884
118-H-6:5_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,777
118-H-6:5_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	53,432
118-H-6:5_Shallow_2	non-Rad	Xylenes (total)	1330-20-7	µg/kg	1.1
118-H-6:5_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	44,927
118-H-6:5_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.4
118-H-6:5_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.100
118-H-6:5_Shallow_2	Rad	Technetium-99	14133-76-7	pCi/g	0.40
118-H-6:5_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	6.7
118-H-6:5_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.60

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
118-H-6:5_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.59
118-H-6:5_Shallow_3	non-Rad	2-Hexanone	591-78-6	µg/kg	4.7
118-H-6:5_Shallow_3	non-Rad	Acenaphthene	83-32-9	µg/kg	2.8
118-H-6:5_Shallow_3	non-Rad	Aluminum	7429-90-5	µg/kg	7.40E+06
118-H-6:5_Shallow_3	non-Rad	Anthracene	120-12-7	µg/kg	2.4
118-H-6:5_Shallow_3	non-Rad	Antimony	7440-36-0	µg/kg	505
118-H-6:5_Shallow_3	non-Rad	Arsenic	7440-38-2	µg/kg	4,522
118-H-6:5_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg	62,837
118-H-6:5_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	5.2
118-H-6:5_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	4.7
118-H-6:5_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	5.2
118-H-6:5_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	2.5
118-H-6:5_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg	211
118-H-6:5_Shallow_3	non-Rad	Boron	7440-42-8	µg/kg	1,892
118-H-6:5_Shallow_3	non-Rad	Cadmium	7440-43-9	µg/kg	97
118-H-6:5_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg	10,827
118-H-6:5_Shallow_3	non-Rad	Chrysene	218-01-9	µg/kg	3.2
118-H-6:5_Shallow_3	non-Rad	Cobalt	7440-48-4	µg/kg	6,132
118-H-6:5_Shallow_3	non-Rad	Copper	7440-50-8	µg/kg	13,821
118-H-6:5_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	0.98
118-H-6:5_Shallow_3	non-Rad	Fluoranthene	206-44-0	µg/kg	9.5
118-H-6:5_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	5.9
118-H-6:5_Shallow_3	non-Rad	Iron	7439-89-6	µg/kg	1.74E+07
118-H-6:5_Shallow_3	non-Rad	Lead	7439-92-1	µg/kg	11,233
118-H-6:5_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg	281,265
118-H-6:5_Shallow_3	non-Rad	Methylene chloride	75-09-2	µg/kg	3.6
118-H-6:5_Shallow_3	non-Rad	Molybdenum	7439-98-7	µg/kg	374
118-H-6:5_Shallow_3	non-Rad	Naphthalene	91-20-3	µg/kg	42
118-H-6:5_Shallow_3	non-Rad	Nickel	7440-02-0	µg/kg	12,882
118-H-6:5_Shallow_3	non-Rad	Pyrene	129-00-0	µg/kg	10
118-H-6:5_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	14,695
118-H-6:5_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,234
118-H-6:5_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg	46,611
118-H-6:5_Shallow_3	non-Rad	Zinc	7440-66-6	µg/kg	43,700
118-H-6:5_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	0.96
118-H-6:5_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0.20
118-H-6:5_Shallow_3	Rad	Tritium	10028-17-8	pCi/g	7.0
118-H-6:5_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.73
118-H-6:5_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0.75
118-H-6:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	µg/kg	8.3
118-H-6:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	8.75E+06
118-H-6:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	µg/kg	4.9
118-H-6:5_Shallow_Focused	non-Rad	Antimony	7440-36-0	µg/kg	592
118-H-6:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	27,000
118-H-6:5_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	65,600
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	53
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	40
118-H-6:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	56
118-H-6:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	27
118-H-6:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	251
118-H-6:5_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	1,710
118-H-6:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	103
118-H-6:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	13,000
118-H-6:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	47
118-H-6:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	6,700
118-H-6:5_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	34,500
118-H-6:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	7.5
118-H-6:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	171
118-H-6:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	µg/kg	3.7
118-H-6:5_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	31
118-H-6:5_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.83E+07
118-H-6:5_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	114,000
118-H-6:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	311,000
118-H-6:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	439
118-H-6:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	µg/kg	10
118-H-6:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	12,600
118-H-6:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	149
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	12,000
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	24,000
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - gasoline range	TPHGASOLINE	µg/kg	470
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	41,600
118-H-6:5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,054
118-H-6:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	49,400
118-H-6:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	46,400
118-H-6:5_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.2
118-H-6:5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	4.1
118-H-6:5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.93
118-H-6:5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.69
128-H-1_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.29
128-H-1_Overburden	non-Rad	Acenaphthene	83-32-9	µg/kg	4.4
128-H-1_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	9.54E+06
128-H-1_Overburden	non-Rad	Anthracene	120-12-7	µg/kg	3.1
128-H-1_Overburden	non-Rad	Aroclor-1254	11097-69-1	µg/kg	8.1
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	40,542
128-H-1_Overburden	non-Rad	Barium	7440-39-3	µg/kg	85,541
128-H-1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	30
128-H-1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	58
128-H-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	39
128-H-1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	19
128-H-1_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	274
128-H-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	144
128-H-1_Overburden	non-Rad	Boron	7440-42-8	µg/kg	2,799
128-H-1_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	177

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
128-H-1_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	13,085
128-H-1_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	29
128-H-1_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	6,539
128-H-1_Overburden	non-Rad	Copper	7440-50-8	µg/kg	13,458
128-H-1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	6.6
128-H-1_Overburden	non-Rad	Endosulfan I	959-98-8	µg/kg	1.3
128-H-1_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	98
128-H-1_Overburden	non-Rad	Fluorene	86-73-7	µg/kg	2.6
128-H-1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	39
128-H-1_Overburden	non-Rad	Iron	7439-89-6	µg/kg	1.85E+07
128-H-1_Overburden	non-Rad	Lead	7439-92-1	µg/kg	253,830
128-H-1_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	313,886
128-H-1_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	20
128-H-1_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	391
128-H-1_Overburden	non-Rad	Naphthalene	91-20-3	µg/kg	5.5
128-H-1_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	11,022
128-H-1_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	95
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	8,400
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	24,000
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	39,451
128-H-1_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	47,044
128-H-1_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	49,389
128-H-1_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	2.9
128-H-1_Shallow_3	non-Rad	Acenaphthene	83-32-9	µg/kg	26
128-H-1_Shallow_3	non-Rad	Aluminum	7429-90-5	µg/kg	9.87E+06
128-H-1_Shallow_3	non-Rad	Anthracene	120-12-7	µg/kg	3.5
128-H-1_Shallow_3	non-Rad	Antimony	7440-36-0	µg/kg	239
128-H-1_Shallow_3	non-Rad	Aroclor-1260	11096-82-5	µg/kg	3.4
128-H-1_Shallow_3	non-Rad	Arsenic	7440-38-2	µg/kg	10,642
128-H-1_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg	102,210
128-H-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	50
128-H-1_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	60
128-H-1_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	59
128-H-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	29
128-H-1_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg	297
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	µg/kg	4,922
128-H-1_Shallow_3	non-Rad	Cadmium	7440-43-9	µg/kg	152
128-H-1_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg	13,634
128-H-1_Shallow_3	non-Rad	Chrysene	218-01-9	µg/kg	49
128-H-1_Shallow_3	non-Rad	Cobalt	7440-48-4	µg/kg	6,720
128-H-1_Shallow_3	non-Rad	Copper	7440-50-8	µg/kg	14,071
128-H-1_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	7.6
128-H-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	µg/kg	154
128-H-1_Shallow_3	non-Rad	Fluorene	86-73-7	µg/kg	4.3
128-H-1_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	170
128-H-1_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	41
128-H-1_Shallow_3	non-Rad	Iron	7439-89-6	µg/kg	1.84E+07
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	µg/kg	65,620
128-H-1_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg	298,334
128-H-1_Shallow_3	non-Rad	Mercury	7439-97-6	µg/kg	30
128-H-1_Shallow_3	non-Rad	Molybdenum	7439-98-7	µg/kg	347
128-H-1_Shallow_3	non-Rad	Nickel	7440-02-0	µg/kg	12,942
128-H-1_Shallow_3	non-Rad	Pyrene	129-00-0	µg/kg	102
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	8,742
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	19,397
128-H-1_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg	46,141
128-H-1_Shallow_3	non-Rad	Zinc	7440-66-6	µg/kg	43,831
128-H-1_Shallow_4	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	2.5
128-H-1_Shallow_4	non-Rad	Acenaphthene	83-32-9	µg/kg	15
128-H-1_Shallow_4	non-Rad	Aluminum	7429-90-5	µg/kg	1.02E+07
128-H-1_Shallow_4	non-Rad	Anthracene	120-12-7	µg/kg	1.3
128-H-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	µg/kg	9.4
128-H-1_Shallow_4	non-Rad	Aroclor-1260	11096-82-5	µg/kg	19
128-H-1_Shallow_4	non-Rad	Arsenic	7440-38-2	µg/kg	5,365
128-H-1_Shallow_4	non-Rad	Barium	7440-39-3	µg/kg	95,142
128-H-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	9.9
128-H-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	11
128-H-1_Shallow_4	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	11
128-H-1_Shallow_4	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	4.3
128-H-1_Shallow_4	non-Rad	Beryllium	7440-41-7	µg/kg	309
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	µg/kg	4,462
128-H-1_Shallow_4	non-Rad	Cadmium	7440-43-9	µg/kg	163
128-H-1_Shallow_4	non-Rad	Chromium	7440-47-3	µg/kg	14,369
128-H-1_Shallow_4	non-Rad	Chrysene	218-01-9	µg/kg	11
128-H-1_Shallow_4	non-Rad	Cobalt	7440-48-4	µg/kg	6,783
128-H-1_Shallow_4	non-Rad	Copper	7440-50-8	µg/kg	13,865
128-H-1_Shallow_4	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	2.6
128-H-1_Shallow_4	non-Rad	Fluoranthene	206-44-0	µg/kg	28
128-H-1_Shallow_4	non-Rad	Fluorene	86-73-7	µg/kg	4.3
128-H-1_Shallow_4	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	156
128-H-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	5.3
128-H-1_Shallow_4	non-Rad	Iron	7439-89-6	µg/kg	2.03E+07
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	µg/kg	44,536
128-H-1_Shallow_4	non-Rad	Manganese	7439-96-5	µg/kg	319,234
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	µg/kg	1,021
128-H-1_Shallow_4	non-Rad	Molybdenum	7439-98-7	µg/kg	414
128-H-1_Shallow_4	non-Rad	Naphthalene	91-20-3	µg/kg	6.6
128-H-1_Shallow_4	non-Rad	Nickel	7440-02-0	µg/kg	11,655
128-H-1_Shallow_4	non-Rad	Pyrene	129-00-0	µg/kg	18
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	10,082
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	48,270
128-H-1_Shallow_4	non-Rad	Vanadium	7440-62-2	µg/kg	51,297
128-H-1_Shallow_4	non-Rad	Zinc	7440-66-6	µg/kg	40,798

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
128-H-1_Shallow_5	non-Rad	Aluminum	7429-90-5	µg/kg	7.61E+06
128-H-1_Shallow_5	non-Rad	Arsenic	7440-38-2	µg/kg	3,785
128-H-1_Shallow_5	non-Rad	Barium	7440-39-3	µg/kg	66,201
128-H-1_Shallow_5	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	12
128-H-1_Shallow_5	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	13
128-H-1_Shallow_5	non-Rad	Beryllium	7440-41-7	µg/kg	122
128-H-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	75
128-H-1_Shallow_5	non-Rad	Boron	7440-42-8	µg/kg	1,534
128-H-1_Shallow_5	non-Rad	Cadmium	7440-43-9	µg/kg	74
128-H-1_Shallow_5	non-Rad	Chromium	7440-47-3	µg/kg	12,741
128-H-1_Shallow_5	non-Rad	Chrysene	218-01-9	µg/kg	15
128-H-1_Shallow_5	non-Rad	Cobalt	7440-48-4	µg/kg	6,508
128-H-1_Shallow_5	non-Rad	Copper	7440-50-8	µg/kg	16,559
128-H-1_Shallow_5	non-Rad	Fluoranthene	206-44-0	µg/kg	23
128-H-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	917
128-H-1_Shallow_5	non-Rad	Iron	7439-89-6	µg/kg	1.57E+07
128-H-1_Shallow_5	non-Rad	Lead	7439-92-1	µg/kg	6,674
128-H-1_Shallow_5	non-Rad	Manganese	7439-96-5	µg/kg	270,578
128-H-1_Shallow_5	non-Rad	Mercury	7439-97-6	µg/kg	23
128-H-1_Shallow_5	non-Rad	Molybdenum	7439-98-7	µg/kg	490
128-H-1_Shallow_5	non-Rad	Nickel	7440-02-0	µg/kg	11,527
128-H-1_Shallow_5	non-Rad	Pyrene	129-00-0	µg/kg	30
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	160,000
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	357,773
128-H-1_Shallow_5	non-Rad	Vanadium	7440-62-2	µg/kg	40,807
128-H-1_Shallow_5	non-Rad	Zinc	7440-66-6	µg/kg	36,178
128-H-1_Staging pile area footprint_2	non-Rad	Acenaphthene	83-32-9	µg/kg	48
128-H-1_Staging pile area footprint_2	non-Rad	Aluminum	7429-90-5	µg/kg	1.11E+07
128-H-1_Staging pile area footprint_2	non-Rad	Anthracene	120-12-7	µg/kg	2.4
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1254	11097-69-1	µg/kg	8.8
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1260	11096-82-5	µg/kg	3.7
128-H-1_Staging pile area footprint_2	non-Rad	Arsenic	7440-38-2	µg/kg	54,142
128-H-1_Staging pile area footprint_2	non-Rad	Barium	7440-39-3	µg/kg	88,760
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	12
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	17
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	14
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	6.4
128-H-1_Staging pile area footprint_2	non-Rad	Beryllium	7440-41-7	µg/kg	338
128-H-1_Staging pile area footprint_2	non-Rad	Boron	7440-42-8	µg/kg	3,306
128-H-1_Staging pile area footprint_2	non-Rad	Cadmium	7440-43-9	µg/kg	148
128-H-1_Staging pile area footprint_2	non-Rad	Chromium	7440-47-3	µg/kg	15,220
128-H-1_Staging pile area footprint_2	non-Rad	Chrysene	218-01-9	µg/kg	10
128-H-1_Staging pile area footprint_2	non-Rad	Cobalt	7440-48-4	µg/kg	6,810
128-H-1_Staging pile area footprint_2	non-Rad	Copper	7440-50-8	µg/kg	13,202
128-H-1_Staging pile area footprint_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	2.6
128-H-1_Staging pile area footprint_2	non-Rad	Fluoranthene	206-44-0	µg/kg	56
128-H-1_Staging pile area footprint_2	non-Rad	Fluorene	86-73-7	µg/kg	12
128-H-1_Staging pile area footprint_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	13
128-H-1_Staging pile area footprint_2	non-Rad	Iron	7439-89-6	µg/kg	2.05E+07
128-H-1_Staging pile area footprint_2	non-Rad	Lead	7439-92-1	µg/kg	124,843
128-H-1_Staging pile area footprint_2	non-Rad	Manganese	7439-96-5	µg/kg	339,768
128-H-1_Staging pile area footprint_2	non-Rad	Mercury	7439-97-6	µg/kg	67
128-H-1_Staging pile area footprint_2	non-Rad	Molybdenum	7439-98-7	µg/kg	276
128-H-1_Staging pile area footprint_2	non-Rad	Nickel	7440-02-0	µg/kg	12,076
128-H-1_Staging pile area footprint_2	non-Rad	Pyrene	129-00-0	µg/kg	33
128-H-1_Staging pile area footprint_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	23,047
128-H-1_Staging pile area footprint_2	non-Rad	Vanadium	7440-62-2	µg/kg	46,690
128-H-1_Staging pile area footprint_2	non-Rad	Zinc	7440-66-6	µg/kg	43,441
128-H-1_Staging pile area footprint_6	non-Rad	Aluminum	7429-90-5	µg/kg	1.04E+07
128-H-1_Staging pile area footprint_6	non-Rad	Arsenic	7440-38-2	µg/kg	3,730
128-H-1_Staging pile area footprint_6	non-Rad	Barium	7440-39-3	µg/kg	89,946
128-H-1_Staging pile area footprint_6	non-Rad	Beryllium	7440-41-7	µg/kg	272
128-H-1_Staging pile area footprint_6	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	74
128-H-1_Staging pile area footprint_6	non-Rad	Boron	7440-42-8	µg/kg	1,747
128-H-1_Staging pile area footprint_6	non-Rad	Cadmium	7440-43-9	µg/kg	91
128-H-1_Staging pile area footprint_6	non-Rad	Chromium	7440-47-3	µg/kg	14,174
128-H-1_Staging pile area footprint_6	non-Rad	Cobalt	7440-48-4	µg/kg	7,326
128-H-1_Staging pile area footprint_6	non-Rad	Copper	7440-50-8	µg/kg	14,851
128-H-1_Staging pile area footprint_6	non-Rad	Diethylphthalate	84-66-2	µg/kg	35
128-H-1_Staging pile area footprint_6	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	233
128-H-1_Staging pile area footprint_6	non-Rad	Iron	7439-89-6	µg/kg	2.04E+07
128-H-1_Staging pile area footprint_6	non-Rad	Lead	7439-92-1	µg/kg	5,852
128-H-1_Staging pile area footprint_6	non-Rad	Manganese	7439-96-5	µg/kg	333,857
128-H-1_Staging pile area footprint_6	non-Rad	Mercury	7439-97-6	µg/kg	7.5
128-H-1_Staging pile area footprint_6	non-Rad	Nickel	7440-02-0	µg/kg	13,384
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	8,700
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	23,494
128-H-1_Staging pile area footprint_6	non-Rad	Vanadium	7440-62-2	µg/kg	40,715
128-H-1_Staging pile area footprint_6	non-Rad	Zinc	7440-66-6	µg/kg	40,935
128-H-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.05E+06
128-H-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	3,500
128-H-2_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	82,600
128-H-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	130
128-H-2_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	µg/kg	22
128-H-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	13,800
128-H-2_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	16,300
128-H-2_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	36
128-H-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	220
128-H-2_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.18E+07
128-H-2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	4,900
128-H-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	329,000
128-H-2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	4.0
128-H-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	13,100

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
128-H-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	µg/kg	1,200
128-H-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	4,100
128-H-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	58,500
128-H-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	42,000
128-H-3_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	1.7
128-H-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	9.75E+06
128-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	11,000
128-H-3_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	81,800
128-H-3_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	18
128-H-3_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	37
128-H-3_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	28
128-H-3_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	27
128-H-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	µg/kg	360
128-H-3_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	160
128-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	µg/kg	3,700
128-H-3_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	µg/kg	28
128-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	16,900
128-H-3_Shallow_Focused	non-Rad	Chrysene	218-01-9	µg/kg	20
128-H-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	8,400
128-H-3_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	19,800
128-H-3_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	120
128-H-3_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	µg/kg	24
128-H-3_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	2.36E+07
128-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	94,100
128-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	360,000
128-H-3_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	40
128-H-3_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	µg/kg	6.0
128-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	µg/kg	680
128-H-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	15,400
128-H-3_Shallow_Focused	non-Rad	Pyrene	129-00-0	µg/kg	28
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	6,000
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	µg/kg	13,000
128-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	60,500
128-H-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	49,800
1607-H1_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	8.11E+06
1607-H1_Overburden	non-Rad	Antimony	7440-36-0	µg/kg	420
1607-H1_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	14,321
1607-H1_Overburden	non-Rad	Barium	7440-39-3	µg/kg	79,109
1607-H1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	56
1607-H1_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	267
1607-H1_Overburden	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg	1.4
1607-H1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	282
1607-H1_Overburden	non-Rad	Boron	7440-42-8	µg/kg	3,760
1607-H1_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	108
1607-H1_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	12,120
1607-H1_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	6,260
1607-H1_Overburden	non-Rad	Copper	7440-50-8	µg/kg	14,456
1607-H1_Overburden	non-Rad	Dieldrin	60-57-1	µg/kg	2.0
1607-H1_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	71
1607-H1_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	1,465
1607-H1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	169
1607-H1_Overburden	non-Rad	Iron	7439-89-6	µg/kg	1.83E+07
1607-H1_Overburden	non-Rad	Lead	7439-92-1	µg/kg	60,452
1607-H1_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	299,830
1607-H1_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	15
1607-H1_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	449
1607-H1_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	11,144
1607-H1_Overburden	non-Rad	Nitrate	14797-55-8	µg/kg	57,506
1607-H1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	13,996
1607-H1_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	96
1607-H1_Overburden	non-Rad	Selenium	7782-49-2	µg/kg	979
1607-H1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,112
1607-H1_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	46,454
1607-H1_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	39,273
1607-H1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.5
1607-H1_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.73
1607-H1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71
1607-H1_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	4.0
1607-H1_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	1.3
1607-H1_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	8.88E+06
1607-H1_Shallow	non-Rad	Antimony	7440-36-0	µg/kg	208
1607-H1_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	27
1607-H1_Shallow	non-Rad	Aroclor-1260	11096-82-5	µg/kg	14
1607-H1_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	9,508
1607-H1_Shallow	non-Rad	Barium	7440-39-3	µg/kg	80,403
1607-H1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	73
1607-H1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	68
1607-H1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	55
1607-H1_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	268
1607-H1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	211
1607-H1_Shallow	non-Rad	Boron	7440-42-8	µg/kg	3,052
1607-H1_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	127
1607-H1_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	13,089
1607-H1_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	78
1607-H1_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	7,042
1607-H1_Shallow	non-Rad	Copper	7440-50-8	µg/kg	15,043
1607-H1_Shallow	non-Rad	Dieldrin	60-57-1	µg/kg	3.9
1607-H1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	253
1607-H1_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	171
1607-H1_Shallow	non-Rad	Fluoride	16984-48-8	µg/kg	4,029
1607-H1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	137
1607-H1_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.99E+07
1607-H1_Shallow	non-Rad	Lead	7439-92-1	µg/kg	25,361

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
1607-H1_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	315,367
1607-H1_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	97
1607-H1_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	383
1607-H1_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,940
1607-H1_Shallow	non-Rad	Nitrate	14797-55-8	µg/kg	12,618
1607-H1_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	2,747
1607-H1_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	233
1607-H1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,781
1607-H1_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	50,477
1607-H1_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	43,328
1607-H1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.5
1607-H1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.077
1607-H1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.34
1607-H1_Shallow	Rad	Tritium	10028-17-8	pCi/g	7.4
1607-H1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67
1607-H1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.60
1607-H1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	µg/kg	5.87E+06
1607-H1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,300
1607-H1_Shallow_Focused	non-Rad	Barium	7440-39-3	µg/kg	40,500
1607-H1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	µg/kg	55
1607-H1_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,800
1607-H1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	µg/kg	4,800
1607-H1_Shallow_Focused	non-Rad	Copper	7440-50-8	µg/kg	13,400
1607-H1_Shallow_Focused	non-Rad	Iron	7439-89-6	µg/kg	1.24E+07
1607-H1_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,700
1607-H1_Shallow_Focused	non-Rad	Manganese	7439-96-5	µg/kg	228,000
1607-H1_Shallow_Focused	non-Rad	Nickel	7440-02-0	µg/kg	11,200
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	µg/kg	840
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	570
1607-H1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	0.043
1607-H1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	µg/kg	33,500
1607-H1_Shallow_Focused	non-Rad	Zinc	7440-66-6	µg/kg	29,900
1607-H1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.27
1607-H2_Deep_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,300
1607-H2_Deep_Focused	non-Rad	Chromium	7440-47-3	µg/kg	9,100
1607-H2_Deep_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,300
1607-H2_Deep_Focused	non-Rad	Mercury	7439-97-6	µg/kg	62
1607-H2_Overburden	non-Rad	Anthracene	120-12-7	µg/kg	23
1607-H2_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	15,800
1607-H2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	100
1607-H2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	130
1607-H2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	76
1607-H2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	94
1607-H2_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	10,300
1607-H2_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	120
1607-H2_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	230
1607-H2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	79
1607-H2_Overburden	non-Rad	Lead	7439-92-1	µg/kg	54,900
1607-H2_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	220
1607-H2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,116
1607-H2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.038
1607-H2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.70
1607-H2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71
1607-H2_Shallow	non-Rad	Aroclor-1254	11097-69-1	µg/kg	160
1607-H2_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	7,132
1607-H2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	24
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	204,000
1607-H2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	µg/kg	110
1607-H2_Shallow	non-Rad	Lead	7439-92-1	µg/kg	37,629
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	2,591
1607-H2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	2,242
1607-H2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.073
1607-H2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.92
1607-H2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.75
1607-H2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	µg/kg	1,500
1607-H2_Shallow_Focused	non-Rad	Chromium	7440-47-3	µg/kg	7,900
1607-H2_Shallow_Focused	non-Rad	Lead	7439-92-1	µg/kg	2,500
1607-H2_Shallow_Focused	non-Rad	Mercury	7439-97-6	µg/kg	65
1607-H3_Overburden	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	µg/kg	2.0
1607-H3_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	18
1607-H3_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	2.5
1607-H3_Overburden	non-Rad	Acenaphthene	83-32-9	µg/kg	18
1607-H3_Overburden	non-Rad	Aluminum	7429-90-5	µg/kg	9.07E+06
1607-H3_Overburden	non-Rad	Anthracene	120-12-7	µg/kg	1.7
1607-H3_Overburden	non-Rad	Aroclor-1254	11097-69-1	µg/kg	15
1607-H3_Overburden	non-Rad	Aroclor-1260	11096-82-5	µg/kg	9.4
1607-H3_Overburden	non-Rad	Arsenic	7440-38-2	µg/kg	4,302
1607-H3_Overburden	non-Rad	Barium	7440-39-3	µg/kg	97,722
1607-H3_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	7.2
1607-H3_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	11
1607-H3_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	8.7
1607-H3_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	3.9
1607-H3_Overburden	non-Rad	Beryllium	7440-41-7	µg/kg	261
1607-H3_Overburden	non-Rad	Boron	7440-42-8	µg/kg	4,725
1607-H3_Overburden	non-Rad	Cadmium	7440-43-9	µg/kg	139
1607-H3_Overburden	non-Rad	Chromium	7440-47-3	µg/kg	49,818
1607-H3_Overburden	non-Rad	Chrysene	218-01-9	µg/kg	12
1607-H3_Overburden	non-Rad	Cobalt	7440-48-4	µg/kg	7,300
1607-H3_Overburden	non-Rad	Copper	7440-50-8	µg/kg	14,980
1607-H3_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	1.7
1607-H3_Overburden	non-Rad	Endosulfan I	959-98-8	µg/kg	3.2
1607-H3_Overburden	non-Rad	Fluoranthene	206-44-0	µg/kg	22
1607-H3_Overburden	non-Rad	Fluorene	86-73-7	µg/kg	1.4

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
1607-H3_Overburden	non-Rad	Fluoride	16984-48-8	µg/kg	992
1607-H3_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	129
1607-H3_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	7.0
1607-H3_Overburden	non-Rad	Iron	7439-89-6	µg/kg	1.94E+07
1607-H3_Overburden	non-Rad	Lead	7439-92-1	µg/kg	21,505
1607-H3_Overburden	non-Rad	Manganese	7439-96-5	µg/kg	306,125
1607-H3_Overburden	non-Rad	Mercury	7439-97-6	µg/kg	15
1607-H3_Overburden	non-Rad	Methylene chloride	75-09-2	µg/kg	11
1607-H3_Overburden	non-Rad	Molybdenum	7439-98-7	µg/kg	365
1607-H3_Overburden	non-Rad	Naphthalene	91-20-3	µg/kg	103
1607-H3_Overburden	non-Rad	Nickel	7440-02-0	µg/kg	21,414
1607-H3_Overburden	non-Rad	Nitrate	14797-55-8	µg/kg	43,234
1607-H3_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	6,068
1607-H3_Overburden	non-Rad	Pyrene	129-00-0	µg/kg	16
1607-H3_Overburden	non-Rad	Silver	7440-22-4	µg/kg	840
1607-H3_Overburden	non-Rad	Vanadium	7440-62-2	µg/kg	51,141
1607-H3_Overburden	non-Rad	Zinc	7440-66-6	µg/kg	51,058
1607-H3_Shallow_1	non-Rad	2-Methylnaphthalene	91-57-6	µg/kg	219
1607-H3_Shallow_1	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	µg/kg	1.6
1607-H3_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	4.8
1607-H3_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	10
1607-H3_Shallow_1	non-Rad	Acenaphthene	83-32-9	µg/kg	409
1607-H3_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	8.01E+06
1607-H3_Shallow_1	non-Rad	Anthracene	120-12-7	µg/kg	7.8
1607-H3_Shallow_1	non-Rad	Antimony	7440-36-0	µg/kg	389
1607-H3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	µg/kg	11
1607-H3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	µg/kg	19
1607-H3_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	3,240
1607-H3_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	70,120
1607-H3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	11
1607-H3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	4.6
1607-H3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	3.7
1607-H3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	4.2
1607-H3_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	245
1607-H3_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	µg/kg	4.6
1607-H3_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	1,945
1607-H3_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	121
1607-H3_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	12,104
1607-H3_Shallow_1	non-Rad	Chrysene	218-01-9	µg/kg	43
1607-H3_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	6,690
1607-H3_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	13,285
1607-H3_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	2.3
1607-H3_Shallow_1	non-Rad	Endosulfan I	959-98-8	µg/kg	3.0
1607-H3_Shallow_1	non-Rad	Fluoranthene	206-44-0	µg/kg	69
1607-H3_Shallow_1	non-Rad	Fluorene	86-73-7	µg/kg	76
1607-H3_Shallow_1	non-Rad	Fluoride	16984-48-8	µg/kg	1,326
1607-H3_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	1.87E+07
1607-H3_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	9,027
1607-H3_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	287,009
1607-H3_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	9.0
1607-H3_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	441
1607-H3_Shallow_1	non-Rad	Naphthalene	91-20-3	µg/kg	169
1607-H3_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	10,739
1607-H3_Shallow_1	non-Rad	Nitrate	14797-55-8	µg/kg	6,544
1607-H3_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	1,980
1607-H3_Shallow_1	non-Rad	Pyrene	129-00-0	µg/kg	22
1607-H3_Shallow_1	non-Rad	Selenium	7782-49-2	µg/kg	300
1607-H3_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	51,055
1607-H3_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	58,150
1607-H3_Shallow_2	non-Rad	Acenaphthene	83-32-9	µg/kg	10
1607-H3_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	6.71E+06
1607-H3_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	2,275
1607-H3_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	50,645
1607-H3_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	197
1607-H3_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	1,136
1607-H3_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	93
1607-H3_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	10,587
1607-H3_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	5,450
1607-H3_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	13,436
1607-H3_Shallow_2	non-Rad	Fluoride	16984-48-8	µg/kg	1,005
1607-H3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	133
1607-H3_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	1.55E+07
1607-H3_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	4,086
1607-H3_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	256,331
1607-H3_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	16
1607-H3_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	268
1607-H3_Shallow_2	non-Rad	Naphthalene	91-20-3	µg/kg	7.6
1607-H3_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	10,188
1607-H3_Shallow_2	non-Rad	Nitrate	14797-55-8	µg/kg	2,497
1607-H3_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	µg/kg	541
1607-H3_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	42,063
1607-H3_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	33,110
1607-H4_Shallow	non-Rad	Acenaphthene	83-32-9	µg/kg	100
1607-H4_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	280
1607-H4_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	7,500
1607-H4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	365
1607-H4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	381
1607-H4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	356
1607-H4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	355
1607-H4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	µg/kg	32
1607-H4_Shallow	non-Rad	Carbazole	86-74-8	µg/kg	120
1607-H4_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	10,200
1607-H4_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	389

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
1607-H4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	22
1607-H4_Shallow	non-Rad	Dibenzofuran	132-64-9	µg/kg	42
1607-H4_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	1,300
1607-H4_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	93
1607-H4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	180
1607-H4_Shallow	non-Rad	Lead	7439-92-1	µg/kg	44,100
1607-H4_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	40
1607-H4_Shallow	non-Rad	Naphthalene	91-20-3	µg/kg	25
1607-H4_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	1,200
1607-H4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	µg/kg	1,587
1607-H4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.14
1607-H4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61
1607-H4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53
600-151_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.70
600-151_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.89
600-151_Shallow_1	non-Rad	Acetone	67-64-1	µg/kg	6.8
600-151_Shallow_1	non-Rad	Aluminum	7429-90-5	µg/kg	1.04E+07
600-151_Shallow_1	non-Rad	Anthracene	120-12-7	µg/kg	5.4
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	µg/kg	31,816
600-151_Shallow_1	non-Rad	Barium	7440-39-3	µg/kg	100,704
600-151_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	75
600-151_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	58
600-151_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	46
600-151_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	23
600-151_Shallow_1	non-Rad	Beryllium	7440-41-7	µg/kg	178
600-151_Shallow_1	non-Rad	Boron	7440-42-8	µg/kg	4,859
600-151_Shallow_1	non-Rad	Cadmium	7440-43-9	µg/kg	286
600-151_Shallow_1	non-Rad	Chromium	7440-47-3	µg/kg	13,125
600-151_Shallow_1	non-Rad	Chrysene	218-01-9	µg/kg	59
600-151_Shallow_1	non-Rad	Cobalt	7440-48-4	µg/kg	7,921
600-151_Shallow_1	non-Rad	Copper	7440-50-8	µg/kg	22,587
600-151_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	23
600-151_Shallow_1	non-Rad	Fluoranthene	206-44-0	µg/kg	125
600-151_Shallow_1	non-Rad	Fluorene	86-73-7	µg/kg	6.7
600-151_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	µg/kg	264
600-151_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	45
600-151_Shallow_1	non-Rad	Iron	7439-89-6	µg/kg	2.02E+07
600-151_Shallow_1	non-Rad	Lead	7439-92-1	µg/kg	126,984
600-151_Shallow_1	non-Rad	Manganese	7439-96-5	µg/kg	352,409
600-151_Shallow_1	non-Rad	Mercury	7439-97-6	µg/kg	15
600-151_Shallow_1	non-Rad	Methylene chloride	75-09-2	µg/kg	2.0
600-151_Shallow_1	non-Rad	Molybdenum	7439-98-7	µg/kg	470
600-151_Shallow_1	non-Rad	Nickel	7440-02-0	µg/kg	13,000
600-151_Shallow_1	non-Rad	Pyrene	129-00-0	µg/kg	159
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	µg/kg	940
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	17,454
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	30,037
600-151_Shallow_1	non-Rad	Vanadium	7440-62-2	µg/kg	41,178
600-151_Shallow_1	non-Rad	Zinc	7440-66-6	µg/kg	64,969
600-151_Shallow_2	non-Rad	2-Butanone	78-93-3	µg/kg	6.9
600-151_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	0.47
600-151_Shallow_2	non-Rad	Acetone	67-64-1	µg/kg	30
600-151_Shallow_2	non-Rad	Aluminum	7429-90-5	µg/kg	9.99E+06
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	µg/kg	59,606
600-151_Shallow_2	non-Rad	Barium	7440-39-3	µg/kg	93,206
600-151_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	24
600-151_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	25
600-151_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	25
600-151_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	16
600-151_Shallow_2	non-Rad	Beryllium	7440-41-7	µg/kg	129
600-151_Shallow_2	non-Rad	Boron	7440-42-8	µg/kg	2,271
600-151_Shallow_2	non-Rad	Cadmium	7440-43-9	µg/kg	596
600-151_Shallow_2	non-Rad	Chromium	7440-47-3	µg/kg	12,221
600-151_Shallow_2	non-Rad	Chrysene	218-01-9	µg/kg	29
600-151_Shallow_2	non-Rad	Cobalt	7440-48-4	µg/kg	7,500
600-151_Shallow_2	non-Rad	Copper	7440-50-8	µg/kg	14,468
600-151_Shallow_2	non-Rad	Fluoranthene	206-44-0	µg/kg	60
600-151_Shallow_2	non-Rad	Iron	7439-89-6	µg/kg	1.90E+07
600-151_Shallow_2	non-Rad	Lead	7439-92-1	µg/kg	266,765
600-151_Shallow_2	non-Rad	Manganese	7439-96-5	µg/kg	359,399
600-151_Shallow_2	non-Rad	Mercury	7439-97-6	µg/kg	13
600-151_Shallow_2	non-Rad	Methylene chloride	75-09-2	µg/kg	11
600-151_Shallow_2	non-Rad	Molybdenum	7439-98-7	µg/kg	330
600-151_Shallow_2	non-Rad	Nickel	7440-02-0	µg/kg	11,536
600-151_Shallow_2	non-Rad	Pyrene	129-00-0	µg/kg	72
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	1,660
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	6,646
600-151_Shallow_2	non-Rad	Vanadium	7440-62-2	µg/kg	38,407
600-151_Shallow_2	non-Rad	Zinc	7440-66-6	µg/kg	47,156
600-151_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	µg/kg	3.4
600-151_Shallow_3	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	µg/kg	0.91
600-151_Shallow_3	non-Rad	Aluminum	7429-90-5	µg/kg	1.05E+07
600-151_Shallow_3	non-Rad	Anthracene	120-12-7	µg/kg	6.7
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	µg/kg	53,961
600-151_Shallow_3	non-Rad	Barium	7440-39-3	µg/kg	215,867
600-151_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	38
600-151_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	39
600-151_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	31
600-151_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	16
600-151_Shallow_3	non-Rad	Beryllium	7440-41-7	µg/kg	137
600-151_Shallow_3	non-Rad	Boron	7440-42-8	µg/kg	2,612
600-151_Shallow_3	non-Rad	Cadmium	7440-43-9	µg/kg	511
600-151_Shallow_3	non-Rad	Chromium	7440-47-3	µg/kg	13,175

Table 4-7. Exposure Point Concentrations for Each Waste Site Decision Unit in the 100-H Source Operable Unit

Waste Site Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration[a]
600-151_Shallow_3	non-Rad	Chrysene	218-01-9	µg/kg	45
600-151_Shallow_3	non-Rad	Cobalt	7440-48-4	µg/kg	7,686
600-151_Shallow_3	non-Rad	Copper	7440-50-8	µg/kg	16,047
600-151_Shallow_3	non-Rad	Fluoranthene	206-44-0	µg/kg	69
600-151_Shallow_3	non-Rad	Fluorene	86-73-7	µg/kg	9.0
600-151_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	31
600-151_Shallow_3	non-Rad	Iron	7439-89-6	µg/kg	2.03E+07
600-151_Shallow_3	non-Rad	Lead	7439-92-1	µg/kg	276,283
600-151_Shallow_3	non-Rad	Manganese	7439-96-5	µg/kg	323,716
600-151_Shallow_3	non-Rad	Mercury	7439-97-6	µg/kg	29
600-151_Shallow_3	non-Rad	Methylene chloride	75-09-2	µg/kg	3.4
600-151_Shallow_3	non-Rad	Molybdenum	7439-98-7	µg/kg	370
600-151_Shallow_3	non-Rad	Naphthalene	91-20-3	µg/kg	18
600-151_Shallow_3	non-Rad	Nickel	7440-02-0	µg/kg	12,315
600-151_Shallow_3	non-Rad	Pyrene	129-00-0	µg/kg	93
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	µg/kg	4,406
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	µg/kg	17,034
600-151_Shallow_3	non-Rad	Vanadium	7440-62-2	µg/kg	38,454
600-151_Shallow_3	non-Rad	Zinc	7440-66-6	µg/kg	62,833
600-152_Shallow	non-Rad	Aluminum	7429-90-5	µg/kg	8.29E+06
600-152_Shallow	non-Rad	Anthracene	120-12-7	µg/kg	15
600-152_Shallow	non-Rad	Arsenic	7440-38-2	µg/kg	4,941
600-152_Shallow	non-Rad	Barium	7440-39-3	µg/kg	67,843
600-152_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	µg/kg	13
600-152_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	µg/kg	15
600-152_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	µg/kg	13
600-152_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	µg/kg	5.6
600-152_Shallow	non-Rad	Beryllium	7440-41-7	µg/kg	279
600-152_Shallow	non-Rad	Boron	7440-42-8	µg/kg	1,785
600-152_Shallow	non-Rad	Cadmium	7440-43-9	µg/kg	81
600-152_Shallow	non-Rad	Chromium	7440-47-3	µg/kg	12,730
600-152_Shallow	non-Rad	Chrysene	218-01-9	µg/kg	10
600-152_Shallow	non-Rad	Cobalt	7440-48-4	µg/kg	6,104
600-152_Shallow	non-Rad	Copper	7440-50-8	µg/kg	23,251
600-152_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	µg/kg	2.0
600-152_Shallow	non-Rad	Fluoranthene	206-44-0	µg/kg	39
600-152_Shallow	non-Rad	Fluorene	86-73-7	µg/kg	1.7
600-152_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	µg/kg	10
600-152_Shallow	non-Rad	Iron	7439-89-6	µg/kg	1.78E+07
600-152_Shallow	non-Rad	Lead	7439-92-1	µg/kg	13,578
600-152_Shallow	non-Rad	Manganese	7439-96-5	µg/kg	299,188
600-152_Shallow	non-Rad	Mercury	7439-97-6	µg/kg	13
600-152_Shallow	non-Rad	Molybdenum	7439-98-7	µg/kg	280
600-152_Shallow	non-Rad	Nickel	7440-02-0	µg/kg	11,630
600-152_Shallow	non-Rad	Pyrene	129-00-0	µg/kg	18
600-152_Shallow	non-Rad	Vanadium	7440-62-2	µg/kg	39,512
600-152_Shallow	non-Rad	Zinc	7440-66-6	µg/kg	40,243
600-152_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.27

Notes

a. ECF-100DR1-11-0004, *Computation of Exposure Point Concentrations for the 100-DR-1, 100-DR-2, 100-HR-1, and 100-HR-2 Source Operable Units.*

Table 4-8. Hanford Site Soil Background Values

Analyte Name	Analyte Class	Units	Lognormal 90th Percentile Background Value	Source of Background Values
Cesium-137	RAD	pCi/g	1.1	DOE/RL-96-12, Rev.0
Cobalt-60	RAD	pCi/g	0.0084	DOE/RL-96-12, Rev.0
Europium-154	RAD	pCi/g	0.033	DOE/RL-96-12, Rev.0
Europium-155	RAD	pCi/g	0.054	DOE/RL-96-12, Rev.0
Gross beta	RAD	pCi/g	23	DOE/RL-96-12, Rev.0
Plutonium-238	RAD	pCi/g	0.0038	DOE/RL-96-12, Rev.0
Plutonium-239/240	RAD	pCi/g	0.025	DOE/RL-96-12, Rev.0
Potassium-40	RAD	pCi/g	17	DOE/RL-96-12, Rev.0
Radium-226	RAD	pCi/g	0.82	DOE/RL-96-12, Rev.0
Radium-228	RAD	pCi/g	1.82	DOE/RL-96-12, Rev.0
Strontium-90	RAD	pCi/g	0.18	DOE/RL-96-12, Rev.0
Thorium-228	RAD	pCi/g	1.40	DOE/RL-96-12, Rev.0
Thorium-232	RAD	pCi/g	1.3	DOE/RL-96-12, Rev.0
Total beta radiostrontium	RAD	pCi/g	0.18	DOE/RL-96-12, Rev.0
Uranium-233/234	RAD	pCi/g	1.1	DOE/RL-96-12, Rev.0
Uranium-234	RAD	pCi/g	1.1	DOE/RL-96-12, Rev.0
Uranium-235	RAD	pCi/g	0.11	DOE/RL-96-12, Rev.0
Uranium-238	RAD	pCi/g	1.1	DOE/RL-96-12, Rev.0
Aluminum	METAL	µg/kg	1.18E+07	DOE/RL-92-24, V.1, Rev.4
Antimony	METAL	µg/kg	130	ECF-HANFORD-11-0038
Arsenic	METAL	µg/kg	20,000	WAC 173-340-900, Table 740-1
Barium	METAL	µg/kg	132,000	DOE/RL-92-24, V.1, Rev.4
Beryllium	METAL	µg/kg	1,510	DOE/RL-92-24, V.1, Rev.4
Cadmium	METAL	µg/kg	563	ECF-HANFORD-11-0038
Calcium	METAL	µg/kg	1.72E+07	DOE/RL-92-24, V.1, Rev.4
Chromium	METAL	µg/kg	18,500	DOE/RL-92-24, V.1, Rev.4
Cobalt	METAL	µg/kg	15,700	DOE/RL-92-24, V.1, Rev.4
Copper	METAL	µg/kg	22,000	DOE/RL-92-24, V.1, Rev.4
Iron	METAL	µg/kg	3.26E+07	DOE/RL-92-24, V.1, Rev.4
Lead	METAL	µg/kg	10,200	DOE/RL-92-24, V.1, Rev.4
Lithium	METAL	µg/kg	13,300	ECF-HANFORD-11-0038
Magnesium	METAL	µg/kg	7.06E+06	DOE/RL-92-24, V.1, Rev.4
Manganese	METAL	µg/kg	512,000	DOE/RL-92-24, V.1, Rev.4
Mercury	METAL	µg/kg	13	ECF-HANFORD-11-0038
Molybdenum	METAL	µg/kg	470	ECF-HANFORD-11-0038
Nickel	METAL	µg/kg	19,100	DOE/RL-92-24, V.1, Rev.4
Potassium	METAL	µg/kg	2.15E+06	DOE/RL-92-24, V.1, Rev.4
Silver	METAL	µg/kg	167	ECF-HANFORD-11-0038
Sodium	METAL	µg/kg	690,000	DOE/RL-92-24, V.1, Rev.4
Uranium	METAL	µg/kg	3,210	Isotopic Activity Conversion based on DOE/RL-96-12 values
Vanadium	METAL	µg/kg	85,100	DOE/RL-92-24, V.1, Rev.4
Zinc	METAL	µg/kg	67,800	DOE/RL-92-24, V.1, Rev.4
Ammonia	ANIONS	µg/kg	9,230	DOE/RL-92-24, V.1, Rev.4
Chloride	ANIONS	µg/kg	100,000	DOE/RL-92-24, V.1, Rev.4
Fluoride	ANIONS	µg/kg	2,810	DOE/RL-92-24, V.1, Rev.4

Table 4-8. Hanford Site Soil Background Values

Analyte Name	Analyte Class	Units	Lognormal 90th Percentile Background Value	Source of Background Values
Nitrate	ANIONS	µg/kg	52,000	DOE/RL-92-24, V.1, Rev.4
Phosphate	ANIONS	µg/kg	785	DOE/RL-92-24, V.1, Rev.4
Sulfate	ANIONS	µg/kg	237,000	DOE/RL-92-24, V.1, Rev.4
Boron	METAL	µg/kg	3,890	ECF-HANFORD-11-0038
Selenium	METAL	µg/kg	780	Ecology 94-115
Thallium	METAL	µg/kg	185	ECF-HANFORD-11-0038

Notes:

DOE/RL-92-24, *Hanford Site Background: Part 1, Soil Background for Nonradioactive Analytes.*

DOE/RL-96-12, *Hanford Site Background: Part 2, Soil Background for Radionuclides.*

ECF-HANFORD-11-0038, *Soil Background Data for Interim Use at the Hanford Site.*

Ecology 94-115, *Natural Background Soil Metals Concentrations in Washington State.*

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length In Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.92E+06	--[a]	--
100-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,027	246,464	No
100-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,985	3.89E+08	No
100-D-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	202	--[a]	--
100-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,100	7.78E+06	No
100-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,135	--[a]	--
100-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,617	--[a]	--
100-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,107	2.86E+08	No
100-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	417	6,000[b]	No
100-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.34E+07	3.89E+08	No
100-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,961	--[a]	--
100-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,021	--[a]	--
100-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.3	--[a]	--
100-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.4	290	No
100-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	350	1.82E+07	No
100-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,343	--[a]	--
100-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	17	--[a]	--
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,187	2.00E+06[c]	No
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	43,478	2.00E+06[c]	No
100-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,051	--[a]	--
100-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,845	--[a]	--
100-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.079	--[a]	--
100-D-13_Shallow_Focused	non-Rad	2-(2-methyl-4-chlorophenoxy) proplonic acid	93-65-2	ug/kg	2,000	48	Yes
100-D-13_Shallow_Focused	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	ug/kg	11	285	No
100-D-13_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.66	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.10E+06	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	4,401	No
100-D-13_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,600	6.95E+06	No
100-D-13_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	1,000	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,900	138,879	No
100-D-13_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	66	480	No
100-D-13_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,900	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,000	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	5.11E+06	No
100-D-13_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	64	36,777	No
100-D-13_Shallow_Focused	non-Rad	Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	ug/kg	3.0	432	No
100-D-13_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,400	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.91E+07	6.95E+06	Yes
100-D-13_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,300	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	14	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	324,724	No
100-D-13_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,000	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	27,500	40,510	No
100-D-13_Shallow_Focused	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	1,800	9,002	No
100-D-13_Shallow_Focused	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,700	9,002	No
100-D-13_Shallow_Focused	non-Rad	Phenol	108-95-2	ug/kg	22	3,098	No
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	3,586	No
100-D-13_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,600	2.00E+06[c]	No
100-D-13_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1,500	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,400	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	122,000	--[a]	--
100-D-13_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
100-D-13_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.097	--[a]	--
100-D-13_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.18	--[a]	--
100-D-15_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.32E+06	--[a]	--
100-D-15_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.4	--[a]	--
100-D-15_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--[a]	--
100-D-15_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,199	2,567	Yes
100-D-15_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64,053	4.05E+06	No
100-D-15_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	191	--[a]	--
100-D-15_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,510	81,013	No
100-D-15_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	62	280	No
100-D-15_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,801	--[a]	--
100-D-15_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6.698	--[a]	--
100-D-15_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,273	2.98E+06	No
100-D-15_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	130	6,000[b]	No
100-D-15_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	4.05E+06	Yes
100-D-15_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,546	--[a]	--
100-D-15_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	277,857	--[a]	--
100-D-15_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	29	--[a]	--
100-D-15_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	380	189,422	No
100-D-15_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,447	--[a]	--
100-D-15_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,272	2.00E+06[c]	No
100-D-15_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	--[a]	--
100-D-15_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	39,833	--[a]	--
100-D-15_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	3.6	--[a]	--
100-D-15_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.7	--[a]	--
100-D-15_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.78E+06	--[a]	--
100-D-15_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,025	4,249	No
100-D-15_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	84,309	6.71E+06	No
100-D-15_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	270	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-15_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	427	--[a]	--
100-D-15_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,652	134,090	No
100-D-15_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	965	463	Yes
100-D-15_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	14,486	--[a]	--
100-D-15_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,880	--[a]	--
100-D-15_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	20,641	4.94E+06	No
100-D-15_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	173	6,000[b]	No
100-D-15_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.28E+07	6.71E+06	Yes
100-D-15_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	7,175	--[a]	--
100-D-15_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	326,395	--[a]	--
100-D-15_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	25	--[a]	--
100-D-15_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	553	313,527	No
100-D-15_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	13,099	--[a]	--
100-D-15_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	477	3,462	No
100-D-15_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	32,560	2.00E+06[c]	No
100-D-15_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,475	--[a]	--
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	92,810	--[a]	--
100-D-18_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2,600	6,000[b]	No
100-D-18_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,920	--[d]	--
100-D-18_Deep	Rad	Cesium-137	10045-97-3	pCi/g	18	--[a]	--
100-D-18_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	--[a]	--
100-D-18_Deep	Rad	Europium-152	14683-23-9	pCi/g	9.8	--[a]	--
100-D-18_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	--[a]	--
100-D-18_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	--[a]	--
100-D-18_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	1,957	No
100-D-18_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[d]	--
100-D-18_Deep	Rad	Uranium-238	U-238	pCi/g	0.65	--[d]	--
100-D-19_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1,580	--[b]	--
100-D-19_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.37	--[a]	--
100-D-19_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	817	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.41E+06	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	246,464	No
100-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	65,000	3.89E+08	No
100-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	190	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,300	7.78E+06	No
100-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,300	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,000	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,500	2.86E+08	No
100-D-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	410	6,000[b]	No
100-D-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	3.89E+08	No
100-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,900	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Lithium	7439-93-2	ug/kg	4,700	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	294,000	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	920	1.82E+07	No
100-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	24,600	3.89E+08	No
100-D-2_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2,400	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	50,100	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	51,300	--[a]	--
100-D-20_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,563	--[d]	--
100-D-20_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.21	--[a]	--
100-D-20_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.5	--[a]	--
100-D-20_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.072	--[a]	--
100-D-20_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.55	--[a]	--
100-D-20_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.041	--[a]	--
100-D-20_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.77	--[d]	--
100-D-20_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.036	--[d]	--
100-D-20_Shallow	Rad	Uranium-238	U-238	pCi/g	0.86	--[d]	--
100-D-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.028	--[a]	--
100-D-22_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,200	--[a]	--
100-D-22_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,500	--[d]	--
100-D-22_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.059	--[a]	--
100-D-22_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
100-D-22_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.033	--[a]	--
100-D-22_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--[a]	--
100-D-22_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	930	No
100-D-22_Shallow	Rad	Uranium-238	U-238	pCi/g	0.84	--[d]	--
100-D-24_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.49E+06	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	246,464	No
100-D-24_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,300	3.89E+08	No
100-D-24_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	271	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	58	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,900	7.78E+06	No
100-D-24_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	201	26,854	No
100-D-24_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,200	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,300	2.86E+08	No
100-D-24_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	22	2.06E+06	No
100-D-24_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	243	6,000[b]	No
100-D-24_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.08E+07	3.89E+08	No
100-D-24_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,100	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295,000	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-24_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	7.1	290	No
100-D-24_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	466	1.82E+07	No
100-D-24_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,800	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,956	--[d]	--
100-D-24_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,700	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	41,600	--[a]	--
100-D-24_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	--[d]	--
100-D-24_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.66	--[d]	--
100-D-28:1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.94E+06	--[a]	--
100-D-28:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	32	3.89E+08	No
100-D-28:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	616	--[a]	--
100-D-28:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,242	246,464	No
100-D-28:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	57,527	3.89E+08	No
100-D-28:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	879	--[a]	--
100-D-28:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	127	--[a]	--
100-D-28:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	165	--[a]	--
100-D-28:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	80	--[a]	--
100-D-28:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,042	7.78E+06	No
100-D-28:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	73	26,854	No
100-D-28:1_Overburden	non-Rad	Carbazole	86-74-8	ug/kg	76	11,983	No
100-D-28:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,399	--[a]	--
100-D-28:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	559	--[a]	--
100-D-28:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,751	--[a]	--
100-D-28:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,727	2.86E+08	No
100-D-28:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	48	--[a]	--
100-D-28:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	374	--[a]	--
100-D-28:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	284	6,000[b]	No
100-D-28:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	96	--[a]	--
100-D-28:1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	3.89E+08	No
100-D-28:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	13,258	--[a]	--
100-D-28:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	283,917	--[a]	--
100-D-28:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	79	--[a]	--
100-D-28:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	330	1.82E+07	No
100-D-28:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,387	--[a]	--
100-D-28:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	827	--[a]	--
100-D-28:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	54,469	--[a]	--
100-D-28:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,796	--[a]	--
100-D-28:1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	45	1.89E+06	No
100-D-28:1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.12E+06	--[a]	--
100-D-28:1_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	110	3.89E+08	No
100-D-28:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	380	--[a]	--
100-D-28:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,258	246,464	No
100-D-28:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,402	3.89E+08	No
100-D-28:1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	32	--[a]	--
100-D-28:1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	47	--[a]	--
100-D-28:1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--[a]	--
100-D-28:1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	20	--[a]	--
100-D-28:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	90	--[a]	--
100-D-28:1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	--[a]	--
100-D-28:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,300	7.78E+06	No
100-D-28:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	130	26,854	No
100-D-28:1_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	11,983	No
100-D-28:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,867	--[a]	--
100-D-28:1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	47	--[a]	--
100-D-28:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,101	--[a]	--
100-D-28:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,362	2.86E+08	No
100-D-28:1_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	43	65,587	No
100-D-28:1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	30	--[a]	--
100-D-28:1_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	50	2.02E+06	No
100-D-28:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	203	6,000[b]	No
100-D-28:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--[a]	--
100-D-28:1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.89E+08	No
100-D-28:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,144	--[a]	--
100-D-28:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,116	--[a]	--
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	572	--[a]	--
100-D-28:1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	410	1.82E+07	No
100-D-28:1_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	46	158,410	No
100-D-28:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,864	--[a]	--
100-D-28:1_Shallow	non-Rad	Phenol	108-95-2	ug/kg	28	173,512	No
100-D-28:1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	91	--[a]	--
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	200,792	No
100-D-28:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,615	--[a]	--
100-D-28:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,414	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.97	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.49	20	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.02E+06	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	3.3	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,592	246,464	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	63,110	3.89E+08	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	21	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	20	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	44	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,500	7.78E+06	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	79	26,854	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,532	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	48	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	8,475	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	15,937	2.86E+08	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	28	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	237	6,000[b]	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.89E+08	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	4,780	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	290,098	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	8.4	--[c]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	340	1.82E+07	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,462	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	100	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43,439	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	38,595	--[a]	--
100-D-29_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	686	--[a]	--
100-D-29_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,302	8,666	No
100-D-29_Overburden	non-Rad	Barium	7440-39-3	ug/kg	62,796	1.37E+07	No
100-D-29_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	356	--[a]	--
100-D-29_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,128	273,461	No
100-D-29_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,050	--[a]	--
100-D-29_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,731	--[a]	--
100-D-29_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,763	--[a]	--
100-D-29_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	297,023	--[a]	--
100-D-29_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.4	--[a]	--
100-D-29_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	260	639,400	No
100-D-29_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,804	--[a]	--
100-D-29_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	494	--[c]	--
100-D-29_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65,107	--[a]	--
100-D-29_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,897	--[a]	--
100-D-29_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.14	1,032	No
100-D-29_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.014	72	No
100-D-29_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.15	--[d]	--
100-D-29_Overburden	Rad	Uranium-238	U-238	pCi/g	0.17	--[d]	--
100-D-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	618	--[a]	--
100-D-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,843	8,666	No
100-D-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,887	1.37E+07	No
100-D-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	240	--[a]	--
100-D-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,333	273,461	No
100-D-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	49	944	No
100-D-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,317	--[a]	--
100-D-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,282	--[a]	--
100-D-29_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,051	--[a]	--
100-D-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	292,330	--[a]	--
100-D-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	--[a]	--
100-D-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	290	639,400	No
100-D-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,777	--[a]	--
100-D-29_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	853	--[c]	--
100-D-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	60,569	--[a]	--
100-D-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,906	--[a]	--
100-D-29_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.084	--[d]	--
100-D-29_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.014	72	No
100-D-29_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.26	--[d]	--
100-D-29_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.029	--[d]	--
100-D-29_Shallow	Rad	Uranium-238	U-238	pCi/g	0.29	--[d]	--
100-D-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	400	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	8,666	No
100-D-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	49,000	1.37E+07	No
100-D-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,200	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,800	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	270,000	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,600	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	287	--[c]	--
100-D-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44,000	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	33,000	--[a]	--
100-D-29_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.034	72	No
100-D-29_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.081	--[d]	--
100-D-29_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.096	--[d]	--
100-D-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	50	--[c]	--
100-D-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.13	--[d]	--
100-D-3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.11	--[d]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Acetone	67-64-1	ug/kg	6.7	366,090	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.58E+06	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.8	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,953	246,464	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Barium	7440-39-3	ug/kg	76,789	3.89E+08	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.5	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.2	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.2	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	215	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,018	7.78E+06	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	82	26,854	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,844	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	1.7	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,971	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,458	2.86E+08	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	4.6	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	900	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.8	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.08E+07	3.89E+08	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,626	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318,306	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	13	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	290	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	386	1.82E+07	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,377	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	4,032	2.27E+06	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	710	504,120	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,120	2.00E+06[c]	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,757	--[d]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,650	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,390	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	--[d]	--
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.59	--[d]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	1.89E+06	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	4.3	366,090	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.94E+06	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.0	3.89E+08	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	659	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	16	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	11	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,936	246,464	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	81,896	3.89E+08	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.0	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.9	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.3	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	223	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,139	7.78E+06	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	95	26,854	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,620	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.9	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,241	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,019	2.86E+08	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.4	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.3	2.02E+06	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	205	6,000[b]	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	17	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.54E+07	3.89E+08	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,510	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	350,952	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	3.9	290	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	451	1.82E+07	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,623	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	45,530	2.27E+06	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	1,800	166,360	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	8,617	504,120	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	10	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	174	557,308	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	22,432	2.00E+06[c]	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,861	--[d]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,961	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,886	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.64	--[d]	--
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	--[d]	--
100-D-31:10_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.48	--[a]	--
100-D-31:10_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.76E+06	--[b]	--
100-D-31:10_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,618	246,464	No
100-D-31:10_Overburden	non-Rad	Barium	7440-39-3	ug/kg	67,626	3.89E+08	No
100-D-31:10_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--[a]	--
100-D-31:10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,283	7.78E+06	No
100-D-31:10_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	99	26,854	No
100-D-31:10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,762	--[a]	--
100-D-31:10_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,309	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:10_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,563	2.86E+08	No
100-D-31:10_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,219	--[a]	--
100-D-31:10_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	412	6,000[b]	No
100-D-31:10_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.89E+08	No
100-D-31:10_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,692	--[a]	--
100-D-31:10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	289,763	--[a]	--
100-D-31:10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	--[a]	--
100-D-31:10_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	290	1.82E+07	No
100-D-31:10_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,988	--[a]	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,040	504,120	No
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	400	50,412	No
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	880	504,120	No
100-D-31:10_Overburden	non-Rad	Phenol	108-95-2	ug/kg	29	173,512	No
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,978	2.00E+06[c]	No
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,361	2.00E+06[c]	No
100-D-31:10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	713	--[d]	--
100-D-31:10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	41,549	--[a]	--
100-D-31:10_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	36,532	--[a]	--
100-D-31:10_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	20	--[a]	--
100-D-31:10_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	29,357	No
100-D-31:10_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.24	--[d]	--
100-D-31:10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.25	--[d]	--
100-D-31:10_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.2	--[a]	--
100-D-31:10_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.4	--[a]	--
100-D-31:10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.99E+06	--[a]	--
100-D-31:10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,721	246,464	No
100-D-31:10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,424	3.89E+08	No
100-D-31:10_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--[a]	--
100-D-31:10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,400	7.78E+06	No
100-D-31:10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	162	26,854	No
100-D-31:10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,199	--[a]	--
100-D-31:10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,426	--[a]	--
100-D-31:10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,570	2.86E+08	No
100-D-31:10_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,476	--[a]	--
100-D-31:10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	3.89E+08	No
100-D-31:10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,201	--[a]	--
100-D-31:10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	310,285	--[a]	--
100-D-31:10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.4	--[a]	--
100-D-31:10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	250	1.82E+07	No
100-D-31:10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,326	--[a]	--
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	7,582	504,120	No
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,545	504,120	No
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,000	2.00E+06[c]	No
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,700	2.00E+06[c]	No
100-D-31:10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	588	--[d]	--
100-D-31:10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,877	--[a]	--
100-D-31:10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,510	--[a]	--
100-D-31:10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.068	--[a]	--
100-D-31:10_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.18	--[d]	--
100-D-31:10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20	--[d]	--
100-D-31:10_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.71	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.61E+06	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	246,464	No
100-D-31:10_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	64,600	3.89E+08	No
100-D-31:10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	33	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	91	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	7.78E+06	No
100-D-31:10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	180	26,854	No
100-D-31:10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,900	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,200	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,300	2.86E+08	No
100-D-31:10_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,400	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.89E+08	No
100-D-31:10_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,800	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	318,000	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.8	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,300	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,200	504,120	No
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,500	504,120	No
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	2.00E+06[c]	No
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,600	2.00E+06[c]	No
100-D-31:10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,866	--[d]	--
100-D-31:10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,300	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	47,800	--[a]	--
100-D-31:10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.63	--[d]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.6	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	100	1.89E+06	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.69E+06	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	200	3.89E+08	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,855	246,464	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,352	3.89E+08	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	159	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	114	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	79	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	48	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	94	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,300	7.78E+06	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,301	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	83	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,491	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	18,617	2.86E+08	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	182	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	59	2.02E+06	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,000	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	177	6,000[b]	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	201	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.55E+07	3.89E+08	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,374	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318,257	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	290	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	1.82E+07	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	47	158,410	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,702	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	618	504,120	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	410	50,412	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	590	504,120	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	630	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,200	200,792	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	2.00E+06[c]	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,558	2.00E+06[c]	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,042	--[d]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	70,801	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47,795	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.15	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	29,357	No
100-D-31:3, 100-D-31:4_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.59	--[d]	--
100-D-31:3, 100-D-31:4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.69	--[d]	--
100-D-31:3_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.26	--[a]	--
100-D-31:3_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--[a]	--
100-D-31:3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	1.89E+06	No
100-D-31:3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.43E+06	--[a]	--
100-D-31:3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,175	246,464	No
100-D-31:3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,235	3.89E+08	No
100-D-31:3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--[a]	--
100-D-31:3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	20	--[a]	--
100-D-31:3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--[a]	--
100-D-31:3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	10	--[a]	--
100-D-31:3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	147	--[a]	--
100-D-31:3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	4,300	--[a]	--
100-D-31:3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,200	7.78E+06	No
100-D-31:3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	72	26,854	No
100-D-31:3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,656	--[a]	--
100-D-31:3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	45	--[a]	--
100-D-31:3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,346	--[a]	--
100-D-31:3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	18,362	2.86E+08	No
100-D-31:3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	97	--[a]	--
100-D-31:3_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	992	--[a]	--
100-D-31:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	181	6,000[b]	No
100-D-31:3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	54	--[a]	--
100-D-31:3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.55E+07	3.89E+08	No
100-D-31:3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,311	--[a]	--
100-D-31:3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	302,831	--[a]	--
100-D-31:3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	19	--[a]	--
100-D-31:3_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	290	No
100-D-31:3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	380	1.82E+07	No
100-D-31:3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,006	--[a]	--
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,219	504,120	No
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,248	504,120	No
100-D-31:3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	97	--[a]	--
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,767	2.00E+06[c]	No
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,440	2.00E+06[c]	No
100-D-31:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,554	--[d]	--
100-D-31:3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,700	--[a]	--
100-D-31:3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	47,716	--[a]	--
100-D-31:3_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.75	--[d]	--
100-D-31:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.86	--[d]	--
100-D-31:4_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	23	64,553	No
100-D-31:4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.61	--[a]	--
100-D-31:4_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.4	366,090	No
100-D-31:4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.26E+06	--[a]	--
100-D-31:4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	562	3.89E+08	No
100-D-31:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	19	--[a]	--
100-D-31:4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,165	246,464	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,687	3.89E+08	No
100-D-31:4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	649	--[a]	--
100-D-31:4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1,900	--[a]	--
100-D-31:4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,600	--[a]	--
100-D-31:4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	920	--[a]	--
100-D-31:4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	129	--[a]	--
100-D-31:4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	138	--[a]	--
100-D-31:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,000	7.78E+06	No
100-D-31:4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	85	26,854	No
100-D-31:4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	230	11,983	No
100-D-31:4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.37	--[a]	--
100-D-31:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,358	--[a]	--
100-D-31:4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1,900	--[a]	--
100-D-31:4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	11,170	--[a]	--
100-D-31:4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,125	2.86E+08	No
100-D-31:4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	176	--[a]	--
100-D-31:4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	92	65,587	No
100-D-31:4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4,200	--[a]	--
100-D-31:4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	243	2.02E+06	No
100-D-31:4_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	950	--[a]	--
100-D-31:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	437	6,000[b]	No
100-D-31:4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	975	--[a]	--
100-D-31:4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.61E+07	3.89E+08	No
100-D-31:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,636	--[a]	--
100-D-31:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,669	--[a]	--
100-D-31:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	42	--[a]	--
100-D-31:4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	290	No
100-D-31:4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	320	1.82E+07	No
100-D-31:4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,006	--[a]	--
100-D-31:4_Shallow	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	566	504,120	No
100-D-31:4_Shallow	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	436	504,120	No
100-D-31:4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,276	--[a]	--
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	9,750	2.00E+06[c]	No
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	36,219	2.00E+06[c]	No
100-D-31:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,929	--[d]	--
100-D-31:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	85,009	--[a]	--
100-D-31:4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,937	--[a]	--
100-D-31:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.062	--[a]	--
100-D-31:4_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.55	--[d]	--
100-D-31:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	--[d]	--
100-D-31:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.49E+06	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	473	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,520	246,464	No
100-D-31:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	58,700	3.89E+08	No
100-D-31:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	219	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	825	7.78E+06	No
100-D-31:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	60	26,854	No
100-D-31:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,490	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,050	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17,600	2.86E+08	No
100-D-31:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.7	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	6,000[b]	No
100-D-31:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.67E+07	3.89E+08	No
100-D-31:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,460	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	346,000	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	472	1.82E+07	No
100-D-31:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,500	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	5,900	2.27E+06	No
100-D-31:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,480	504,120	No
100-D-31:4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,024	--[d]	--
100-D-31:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	75,300	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,600	--[a]	--
100-D-31:4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.56	--[d]	--
100-D-31:4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.68	--[d]	--
100-D-31:5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,059	246,464	No
100-D-31:5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	259,914	3.89E+08	No
100-D-31:5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	492	--[a]	--
100-D-31:5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	20,105	7.78E+06	No
100-D-31:5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,462	--[a]	--
100-D-31:5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,646	--[a]	--
100-D-31:5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	17,652	2.86E+08	No
100-D-31:5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	8,925	--[a]	--
100-D-31:5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	371,945	--[a]	--
100-D-31:5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	142	--[a]	--
100-D-31:5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	1,146	1.82E+07	No
100-D-31:5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	14,926	--[a]	--
100-D-31:5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	28,749	2.27E+06	No
100-D-31:5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,728	200,792	No
100-D-31:5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65,426	--[a]	--
100-D-31:5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	56,474	--[a]	--
100-D-31:5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,276	246,464	No
100-D-31:5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	144,277	3.89E+08	No
100-D-31:5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	231	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10,484	7.78E+06	No
100-D-31:5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	242	26,854	No
100-D-31:5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,395	--[a]	--
100-D-31:5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,126	--[a]	--
100-D-31:5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,737	2.86E+08	No
100-D-31:5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,456	--[a]	--
100-D-31:5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	331,458	--[a]	--
100-D-31:5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240	--[a]	--
100-D-31:5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	700	1.82E+07	No
100-D-31:5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,579	--[a]	--
100-D-31:5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	46,047	2.27E+06	No
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,500	200,792	No
100-D-31:5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,696	--[a]	--
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	89,617	--[a]	--
100-D-31:6_Overburden	non-Rad	4,4'-DDE [Dichlorodiphenyldichloroethylene]	72-55-9	ug/kg	0.30	--[a]	--
100-D-31:6_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	556	--[a]	--
100-D-31:6_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,551	246,464	No
100-D-31:6_Overburden	non-Rad	Barium	7440-39-3	ug/kg	110,920	3.89E+08	No
100-D-31:6_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1,380	--[a]	--
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,998	7.78E+06	No
100-D-31:6_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	60	26,854	No
100-D-31:6_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,736	--[a]	--
100-D-31:6_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	14	--[a]	--
100-D-31:6_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,947	--[a]	--
100-D-31:6_Overburden	non-Rad	Copper	7440-50-8	ug/kg	24,687	2.86E+08	No
100-D-31:6_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	3.0	7,985	No
100-D-31:6_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,709	--[a]	--
100-D-31:6_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.0	--[a]	--
100-D-31:6_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	607	6,000[b]	No
100-D-31:6_Overburden	non-Rad	Lead	7439-92-1	ug/kg	7,537	--[a]	--
100-D-31:6_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	355,498	--[a]	--
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	870	--[a]	--
100-D-31:6_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	326	1.82E+07	No
100-D-31:6_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,583	--[a]	--
100-D-31:6_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,654	504,120	No
100-D-31:6_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,499	--[a]	--
100-D-31:6_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	65,614	--[a]	--
100-D-31:6_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	800	--[a]	--
100-D-31:6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,998	246,464	No
100-D-31:6_Shallow	non-Rad	Barium	7440-39-3	ug/kg	105,118	3.89E+08	No
100-D-31:6_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.0	--[a]	--
100-D-31:6_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,274	--[a]	--
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,860	7.78E+06	No
100-D-31:6_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	103	26,854	No
100-D-31:6_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,798	--[a]	--
100-D-31:6_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.3	--[a]	--
100-D-31:6_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,066	--[a]	--
100-D-31:6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	26,377	2.86E+08	No
100-D-31:6_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,172	--[a]	--
100-D-31:6_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	363	6,000[b]	No
100-D-31:6_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,354	--[a]	--
100-D-31:6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330,083	--[a]	--
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	577	--[a]	--
100-D-31:6_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	460	1.82E+07	No
100-D-31:6_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,585	--[a]	--
100-D-31:6_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	6,985	504,120	No
100-D-31:6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,023	--[a]	--
100-D-31:6_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	63,960	--[a]	--
100-D-31:7_Overburden	non-Rad	2-Butanone	78-93-3	ug/kg	2.0	258,275	No
100-D-31:7_Overburden	non-Rad	4,4'-DDE [Dichlorodiphenyldichloroethylene]	72-55-9	ug/kg	0.67	--[a]	--
100-D-31:7_Overburden	non-Rad	Acetone	67-64-1	ug/kg	13	366,090	No
100-D-31:7_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.17E+06	--[a]	--
100-D-31:7_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	404	--[a]	--
100-D-31:7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.2	--[a]	--
100-D-31:7_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,862	246,464	No
100-D-31:7_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,232	3.89E+08	No
100-D-31:7_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[a]	--
100-D-31:7_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1,700	--[a]	--
100-D-31:7_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	73	--[a]	--
100-D-31:7_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,305	7.78E+06	No
100-D-31:7_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	46	26,854	No
100-D-31:7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,038	--[a]	--
100-D-31:7_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,775	--[a]	--
100-D-31:7_Overburden	non-Rad	Copper	7440-50-8	ug/kg	20,400	2.86E+08	No
100-D-31:7_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,300	--[a]	--
100-D-31:7_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	3.89E+08	No
100-D-31:7_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,665	--[a]	--
100-D-31:7_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	304,518	--[a]	--
100-D-31:7_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	290	No
100-D-31:7_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	514	1.82E+07	No
100-D-31:7_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,125	--[a]	--
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	939	504,120	No
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	687	504,120	No
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,767	2.00E+06[c]	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,876	2.00E+06[c]	No
100-D-31:7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	472	--[d]	--
100-D-31:7_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,619	--[a]	--
100-D-31:7_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,804	--[a]	--
100-D-31:7_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.11	29,357	No
100-D-31:7_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.16	--[d]	--
100-D-31:7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.16	--[d]	--
100-D-31:7_Shallow	non-Rad	2-Butanone	78-93-3	ug/kg	1.8	258,275	No
100-D-31:7_Shallow	non-Rad	Acetone	67-64-1	ug/kg	8.0	366,090	No
100-D-31:7_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	4.77E+06	--[a]	--
100-D-31:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,391	246,464	No
100-D-31:7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,248	3.89E+08	No
100-D-31:7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,500	--[a]	--
100-D-31:7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--[a]	--
100-D-31:7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,234	--[a]	--
100-D-31:7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,431	--[a]	--
100-D-31:7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,912	2.86E+08	No
100-D-31:7_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.76E+07	3.89E+08	No
100-D-31:7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1,794	--[a]	--
100-D-31:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	335,983	--[a]	--
100-D-31:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	92	--[a]	--
100-D-31:7_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	290	No
100-D-31:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	260	1.82E+07	No
100-D-31:7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,657	--[a]	--
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	696	504,120	No
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,459	504,120	No
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	900	2.00E+06[c]	No
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,100	2.00E+06[c]	No
100-D-31:7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	324	--[d]	--
100-D-31:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,980	--[a]	--
100-D-31:7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,513	--[a]	--
100-D-31:7_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.11	--[d]	--
100-D-31:7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.11	--[d]	--
100-D-31:7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.73E+06	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,000	246,464	No
100-D-31:7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	75,300	3.89E+08	No
100-D-31:7_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	63	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	7.78E+06	No
100-D-31:7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,600	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17,900	2.86E+08	No
100-D-31:7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.69E+07	3.89E+08	No
100-D-31:7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,800	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	230	1.82E+07	No
100-D-31:7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,400	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	700	504,120	No
100-D-31:7_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	363	--[d]	--
100-D-31:7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	79,500	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,100	--[a]	--
100-D-31:7_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.17	--[d]	--
100-D-31:7_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.12	--[d]	--
100-D-31:8_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.73E+06	--[a]	--
100-D-31:8_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,796	246,464	No
100-D-31:8_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,527	3.89E+08	No
100-D-31:8_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.0	--[a]	--
100-D-31:8_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.0	--[a]	--
100-D-31:8_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,200	7.78E+06	No
100-D-31:8_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	49	26,854	No
100-D-31:8_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,017	--[a]	--
100-D-31:8_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	13	--[a]	--
100-D-31:8_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,458	--[a]	--
100-D-31:8_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,323	2.86E+08	No
100-D-31:8_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,168	--[a]	--
100-D-31:8_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	332	6,000[b]	No
100-D-31:8_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.46E+07	3.89E+08	No
100-D-31:8_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,584	--[a]	--
100-D-31:8_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	339,535	--[a]	--
100-D-31:8_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.8	--[a]	--
100-D-31:8_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	1.82E+07	No
100-D-31:8_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,368	--[a]	--
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,023	504,120	No
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	783	504,120	No
100-D-31:8_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,917	2.00E+06[c]	No
100-D-31:8_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	839	--[d]	--
100-D-31:8_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	64,672	--[a]	--
100-D-31:8_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,758	--[a]	--
100-D-31:8_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.92	29,357	No
100-D-31:8_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.26	--[d]	--
100-D-31:8_Overburden	Rad	Uranium-238	U-238	pCi/g	0.28	--[d]	--
100-D-31:8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.63	--[a]	--
100-D-31:8_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.11E+06	--[a]	--
100-D-31:8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,205	246,464	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,186	3.89E+08	No
100-D-31:8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.9	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	12	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.9	--[b]	--
100-D-31:8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--[b]	--
100-D-31:8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	940	7.78E+06	No
100-D-31:8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	71	26,854	No
100-D-31:8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,290	--[a]	--
100-D-31:8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.2	--[a]	--
100-D-31:8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,016	--[a]	--
100-D-31:8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,311	2.86E+08	No
100-D-31:8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--[a]	--
100-D-31:8_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,850	--[a]	--
100-D-31:8_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.89E+08	No
100-D-31:8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,024	--[a]	--
100-D-31:8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	312,190	--[a]	--
100-D-31:8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.6	--[a]	--
100-D-31:8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	630	1.82E+07	No
100-D-31:8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,943	--[a]	--
100-D-31:8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	563	504,120	No
100-D-31:8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	27	--[a]	--
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	2.00E+06[c]	No
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,100	2.00E+06[c]	No
100-D-31:8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	516	--[d]	--
100-D-31:8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,087	--[a]	--
100-D-31:8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,019	--[a]	--
100-D-31:8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.19	--[d]	--
100-D-31:8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.19	--[d]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.66E+06	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Antimony	7440-36-0	ug/kg	446	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,890	246,464	No
100-D-31:8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	70,500	3.89E+08	No
100-D-31:8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	169	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	65	26,854	No
100-D-31:8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	6,790	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,000	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	16,200	2.86E+08	No
100-D-31:8_Shallow_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	6,000	No
100-D-31:8_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.81E+07	3.89E+08	No
100-D-31:8_Shallow_Focused_1	non-Rad	Isophorone	78-59-1	ug/kg	77	3,949	No
100-D-31:8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	2,510	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	334,000	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Mercury	7439-97-6	ug/kg	26	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	502	1.82E+07	No
100-D-31:8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	8,890	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	9,400	2.27E+06	No
100-D-31:8_Shallow_Focused_1	non-Rad	Silver	7440-22-4	ug/kg	147	557,308	No
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	94,900	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	51,800	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	2.06E+07	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	5,900	246,464	No
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	1.57E+06	3.89E+08	No
100-D-31:8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1,300	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	169,000	7.78E+06	No
100-D-31:8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	430	26,854	No
100-D-31:8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	13,400	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,900	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	42,400	2.86E+08	No
100-D-31:8_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	3.89E+08	No
100-D-31:8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	24,200	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	368,000	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	120	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2,300	1.82E+07	No
100-D-31:8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	19,700	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	67,200	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	83,000	--[a]	--
100-D-31:9_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	31	--[b]	--
100-D-31:9_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	12	--[b]	--
100-D-31:9_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.04E+06	--[a]	--
100-D-31:9_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,175	246,464	No
100-D-31:9_Overburden	non-Rad	Barium	7440-39-3	ug/kg	58,676	3.89E+08	No
100-D-31:9_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--[b]	--
100-D-31:9_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	74	26,854	No
100-D-31:9_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	5.328	--[a]	--
100-D-31:9_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,066	--[a]	--
100-D-31:9_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,689	2.86E+08	No
100-D-31:9_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	900	--[a]	--
100-D-31:9_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	3.89E+08	No
100-D-31:9_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,029	--[a]	--
100-D-31:9_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	292,130	--[a]	--
100-D-31:9_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.6	--[a]	--
100-D-31:9_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	360	1.82E+07	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:9_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,187	--[a]	--
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	652	504,120	No
100-D-31:9_Overburden	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,300	504,120	No
100-D-31:9_Overburden	non-Rad	Phenol	108-95-2	ug/kg	24	173,512	No
100-D-31:9_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,800	2.00E+06[c]	No
100-D-31:9_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	773	--[d]	--
100-D-31:9_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	52,680	--[a]	--
100-D-31:9_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	39,155	--[a]	--
100-D-31:9_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.23	--[d]	--
100-D-31:9_Overburden	Rad	Uranium-238	U-238	pCi/g	0.29	--[d]	--
100-D-31:9_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	4.84E+06	--[a]	--
100-D-31:9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,517	246,464	No
100-D-31:9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,243	3.89E+08	No
100-D-31:9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[a]	--
100-D-31:9_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	14	--[a]	--
100-D-31:9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--[a]	--
100-D-31:9_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	11	--[a]	--
100-D-31:9_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	114	--[a]	--
100-D-31:9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,100	7.78E+06	No
100-D-31:9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	53	26,854	No
100-D-31:9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,132	--[a]	--
100-D-31:9_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	19	--[a]	--
100-D-31:9_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,666	--[a]	--
100-D-31:9_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,871	2.86E+08	No
100-D-31:9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	222	6,000[b]	No
100-D-31:9_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	12	--[a]	--
100-D-31:9_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.89E+08	No
100-D-31:9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,853	--[a]	--
100-D-31:9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	318,748	--[a]	--
100-D-31:9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	6.6	--[a]	--
100-D-31:9_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	260	1.82E+07	No
100-D-31:9_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,678	--[a]	--
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	607	504,120	No
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	690	504,120	No
100-D-31:9_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	70	--[a]	--
100-D-31:9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	735	--[d]	--
100-D-31:9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	57,014	--[a]	--
100-D-31:9_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,433	--[a]	--
100-D-31:9_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.17	--[d]	--
100-D-31:9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.25	--[d]	--
100-D-32_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	--[a]	--
100-D-32_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,245	8,232	No
100-D-32_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,480	1.30E+07	No
100-D-32_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	225	--[a]	--
100-D-32_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,234	259,761	No
100-D-32_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	897	No
100-D-32_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,852	--[a]	--
100-D-32_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,061	--[a]	--
100-D-32_Overburden	non-Rad	Copper	7440-50-8	ug/kg	18,183	9.56E+06	No
100-D-32_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,836	--[a]	--
100-D-32_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	369,294	--[a]	--
100-D-32_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	549	607,366	No
100-D-32_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,365	--[a]	--
100-D-32_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,762	--[d]	--
100-D-32_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	76,983	--[a]	--
100-D-32_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51,821	--[a]	--
100-D-32_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[d]	--
100-D-32_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.043	--[d]	--
100-D-32_Overburden	Rad	Uranium-238	U-238	pCi/g	0.59	--[d]	--
100-D-32_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	826	--[a]	--
100-D-32_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,499	8,232	No
100-D-32_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,887	1.30E+07	No
100-D-32_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	694	--[a]	--
100-D-32_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,505	259,761	No
100-D-32_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	200	897	No
100-D-32_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,447	--[a]	--
100-D-32_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,970	--[a]	--
100-D-32_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,997	9.56E+06	No
100-D-32_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,774	--[a]	--
100-D-32_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	356,899	--[a]	--
100-D-32_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	568	607,366	No
100-D-32_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,033	--[a]	--
100-D-32_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,466	--[d]	--
100-D-32_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	76,249	--[a]	--
100-D-32_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	62,123	--[a]	--
100-D-32_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.10	--[a]	--
100-D-32_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--[a]	--
100-D-32_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	--[d]	--
100-D-32_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.14	--[d]	--
100-D-32_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[d]	--
100-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,274	--[d]	--
100-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.13	--[a]	--
100-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	1.1	--[d]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	71	--[a]	--
100-D-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	120	--[a]	--
100-D-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	199	6,000[b]	No
100-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,831	--[a]	--
100-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
100-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[a]	--
100-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.13	2,936	No
100-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	--[d]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.67E+06	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	393	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,340	23,905	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Barium	7440-39-3	ug/kg	61,074	3.77E+07	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	233	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Boron	7440-42-8	ug/kg	929	754,339	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	101	2,605	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,297	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,359	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Copper	7440-50-8	ug/kg	26,641	2.78E+07	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,752	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	316,433	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	513	1.76E+06	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,120	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	700	19,475	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	63,875	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,856	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.30E+06	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	456	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,740	23,905	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,900	3.77E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	242	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,181	754,339	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	91	2,605	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,963	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,682	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	ug/kg	90,384	2.78E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,745	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	313,773	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	520	1.76E+06	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,516	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,326	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,192	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.16	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.54E+06	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	23,905	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,000	3.77E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	100	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	660	754,339	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160	2,605	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,500	2.78E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.9	195,564	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,200	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	335,000	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	28	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	530	1.76E+06	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	77,900	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,000	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.64	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	464	--[a]	--
100-D-47_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	789	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-47_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,159	7,537	No
100-D-47_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,847	1.19E+07	No
100-D-47_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	225	--[b]	--
100-D-47_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,497	237,836	No
100-D-47_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	821	No
100-D-47_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,948	--[a]	--
100-D-47_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,295	--[a]	--
100-D-47_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,504	8.76E+06	No
100-D-47_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,065	--[a]	--
100-D-47_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	342,771	--[a]	--
100-D-47_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
100-D-47_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	492	556,102	No
100-D-47_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,406	--[a]	--
100-D-47_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,713	--[d]	--
100-D-47_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	68,752	--[a]	--
100-D-47_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	45,248	--[a]	--
100-D-47_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.0	898	No
100-D-47_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.64	--[d]	--
100-D-47_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.055	--[d]	--
100-D-47_Overburden	Rad	Uranium-238	U-238	pCi/g	0.57	--[d]	--
100-D-47_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,157	7,537	No
100-D-47_Shallow	non-Rad	Barium	7440-39-3	ug/kg	74,542	1.19E+07	No
100-D-47_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	510	--[a]	--
100-D-47_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,317	237,836	No
100-D-47_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	225	821	No
100-D-47_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,828	--[a]	--
100-D-47_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,982	--[a]	--
100-D-47_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,445	8.76E+06	No
100-D-47_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,018	--[a]	--
100-D-47_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	338,839	--[a]	--
100-D-47_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	501	556,102	No
100-D-47_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,351	--[a]	--
100-D-47_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,694	--[d]	--
100-D-47_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	70,090	--[a]	--
100-D-47_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	49,435	--[a]	--
100-D-47_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.090	--[a]	--
100-D-47_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.60	--[a]	--
100-D-47_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--[a]	--
100-D-47_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.2	--[a]	--
100-D-47_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.93	898	No
100-D-47_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[d]	--
100-D-47_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.039	--[d]	--
100-D-47_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	--[d]	--
100-D-47_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	700	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	23,034	No
100-D-47_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,600	3.64E+07	No
100-D-47_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,700	726,844	No
100-D-47_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	2,510	No
100-D-47_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,300	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,500	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,100	2.68E+07	No
100-D-47_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	320	6,000[b]	No
100-D-47_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,100	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	1.70E+06	No
100-D-47_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,300	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,551	--[d]	--
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	85,700	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,300	--[a]	--
100-D-47_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.69	--[a]	--
100-D-47_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	--[a]	--
100-D-47_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.5	--[a]	--
100-D-47_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	36	--[a]	--
100-D-47_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.2	2,744	No
100-D-47_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[d]	--
100-D-47_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.52	--[d]	--
100-D-48:1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5,010	6,000[b]	No
100-D-48:1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,794	--[d]	--
100-D-48:1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.26	--[a]	--
100-D-48:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	30	--[a]	--
100-D-48:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	8.1	--[a]	--
100-D-48:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	64	--[a]	--
100-D-48:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	4.8	--[a]	--
100-D-48:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.51	--[a]	--
100-D-48:1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.68	29,357	No
100-D-48:1_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	--[d]	--
100-D-48:1_Deep	Rad	Uranium-238	U-238	pCi/g	0.60	--[d]	--
100-D-48:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	643	6,000[b]	No
100-D-48:1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,223	--[d]	--
100-D-48:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.27	--[a]	--
100-D-48:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.31	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-48:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	29,357	No
100-D-48:1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	--[d]	--
100-D-48:1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.41	--[d]	--
100-D-48:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,488	--[d]	--
100-D-48:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.8	--[a]	--
100-D-48:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.39	--[a]	--
100-D-48:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	3.2	--[a]	--
100-D-48:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.53	--[a]	--
100-D-48:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.077	--[a]	--
100-D-48:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	29,357	No
100-D-48:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[d]	--
100-D-48:2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.064	--[d]	--
100-D-48:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.50	--[d]	--
100-D-48:2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	608	6,000[b]	No
100-D-48:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,415	--[d]	--
100-D-48:2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.091	--[a]	--
100-D-48:2_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	--[a]	--
100-D-48:2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.11	--[a]	--
100-D-48:2_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.025	--[a]	--
100-D-48:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[d]	--
100-D-48:2_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.035	--[d]	--
100-D-48:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.48	--[d]	--
100-D-48:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,496	--[d]	--
100-D-48:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.89	--[a]	--
100-D-48:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.096	--[a]	--
100-D-48:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.56	--[a]	--
100-D-48:2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	--[a]	--
100-D-48:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.046	--[a]	--
100-D-48:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.18	29,357	No
100-D-48:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[d]	--
100-D-48:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.030	--[d]	--
100-D-48:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[d]	--
100-D-48:3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	587	6,000[b]	No
100-D-48:3_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,230	--[d]	--
100-D-48:3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.7	--[a]	--
100-D-48:3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	--[a]	--
100-D-48:3_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.67	--[a]	--
100-D-48:3_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.071	--[a]	--
100-D-48:3_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.19	--[a]	--
100-D-48:3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	29,357	No
100-D-48:3_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[d]	--
100-D-48:3_Deep	Rad	Uranium-238	U-238	pCi/g	0.41	--[d]	--
100-D-48:3_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,278	--[d]	--
100-D-48:3_Overburden	Rad	Americium-241	14596-10-2	pCi/g	0.052	--[a]	--
100-D-48:3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.21	--[a]	--
100-D-48:3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.040	--[a]	--
100-D-48:3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.25	--[a]	--
100-D-48:3_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	0.37	--[a]	--
100-D-48:3_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.4	--[a]	--
100-D-48:3_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[d]	--
100-D-48:3_Overburden	Rad	Uranium-238	U-238	pCi/g	0.43	--[d]	--
100-D-48:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	802	6,000[b]	No
100-D-48:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,499	--[d]	--
100-D-48:3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.053	--[a]	--
100-D-48:3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.78	--[a]	--
100-D-48:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.13	--[a]	--
100-D-48:3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.061	--[a]	--
100-D-48:3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	29,357	No
100-D-48:3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[d]	--
100-D-48:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[d]	--
100-D-48:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	6,000[b]	No
100-D-48:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,596	--[d]	--
100-D-48:4_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.029	--[a]	--
100-D-48:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.44	--[a]	--
100-D-48:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.043	--[a]	--
100-D-48:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[a]	--
100-D-48:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.028	--[a]	--
100-D-48:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.44	29,357	No
100-D-48:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.49	--[d]	--
100-D-48:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.54	--[d]	--
100-D-49:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,300	6,000[b]	No
100-D-49:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,717	--[d]	--
100-D-49:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	62	--[a]	--
100-D-49:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.6	--[a]	--
100-D-49:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	24	--[a]	--
100-D-49:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.9	--[a]	--
100-D-49:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.26	--[a]	--
100-D-49:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	29,357	No
100-D-49:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[d]	--
100-D-49:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	--[d]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-49:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,063	--[d]	--
100-D-49:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
100-D-49:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.24	--[a]	--
100-D-49:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	--[d]	--
100-D-49:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.089	--[d]	--
100-D-49:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.36	--[d]	--
100-D-49:3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,762	--[d]	--
100-D-49:3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[d]	--
100-D-49:3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.59	--[d]	--
100-D-49:4_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,638	--[a]	--
100-D-49:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	42	--[a]	--
100-D-49:4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,348	--[d]	--
100-D-49:4_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.040	--[a]	--
100-D-49:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.1	--[a]	--
100-D-49:4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	--[a]	--
100-D-49:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	8.3	--[a]	--
100-D-49:4_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	--[a]	--
100-D-49:4_Deep	Rad	Nickel-63	13981-37-8	pCi/g	3.0	--[a]	--
100-D-49:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	--[a]	--
100-D-49:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	29,357	No
100-D-49:4_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[d]	--
100-D-49:4_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.074	--[d]	--
100-D-49:4_Deep	Rad	Uranium-238	U-238	pCi/g	0.45	--[d]	--
100-D-49:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	170	--[a]	--
100-D-49:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	21,359	--[a]	--
100-D-49:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	33	--[a]	--
100-D-49:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,458	--[d]	--
100-D-49:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.45	--[a]	--
100-D-49:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.058	--[a]	--
100-D-49:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5	--[a]	--
100-D-49:4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	--[a]	--
100-D-49:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	--[a]	--
100-D-49:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[d]	--
100-D-49:4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.054	--[d]	--
100-D-49:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[d]	--
100-D-50:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.37E+06	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	246,464	No
100-D-50:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,600	3.89E+08	No
100-D-50:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	419	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	811	7.78E+06	No
100-D-50:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	26,854	No
100-D-50:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,400	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,400	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,500	2.86E+08	No
100-D-50:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	3.89E+08	No
100-D-50:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,500	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	243	1.82E+07	No
100-D-50:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1.5	--[d]	--
100-D-50:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34,900	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	32,900	--[a]	--
100-D-52_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,900	3.89E+08	No
100-D-52_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,400	--[a]	--
100-D-52_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,300	--[a]	--
100-D-52_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,646	--[d]	--
100-D-52_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.065	--[a]	--
100-D-52_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.36	--[a]	--
100-D-52_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[d]	--
100-D-52_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	--[d]	--
100-D-56:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	1,200	--[a]	--
100-D-56:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,522	246,464	No
100-D-56:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	70,319	3.89E+08	No
100-D-56:1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	570	--[a]	--
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,633	7.78E+06	No
100-D-56:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	189	26,854	No
100-D-56:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,204	--[a]	--
100-D-56:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,320	--[a]	--
100-D-56:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	16,174	2.86E+08	No
100-D-56:1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	3,300	--[a]	--
100-D-56:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	271	6,000[c]	No
100-D-56:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	9,649	--[a]	--
100-D-56:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	327,758	--[a]	--
100-D-56:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	75	--[a]	--
100-D-56:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	950	1.82E+07	No
100-D-56:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,053	--[a]	--
100-D-56:1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	22,648	2.27E+06	No
100-D-56:1_Overburden	non-Rad	Nitrite	14797-65-0	ug/kg	4,080	166,360	No
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2,100	200,792	No
100-D-56:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,593	--[a]	--
100-D-56:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	66,962	--[a]	--
100-D-56:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,100	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-56:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,560	246,464	No
100-D-56:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	59,734	3.89E+08	No
100-D-56:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	496	--[a]	--
100-D-56:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,600	7.78E+06	No
100-D-56:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	195	26,854	No
100-D-56:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,457	--[a]	--
100-D-56:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,300	--[a]	--
100-D-56:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,186	2.86E+08	No
100-D-56:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[b]	No
100-D-56:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,080	--[a]	--
100-D-56:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	290,501	--[a]	--
100-D-56:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20	--[a]	--
100-D-56:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,800	--[a]	--
100-D-56:1_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	29,400	2.27E+06	No
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	200,792	No
100-D-56:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	49,162	--[c]	--
100-D-56:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,499	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,000	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	246,464	No
100-D-56:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,900	3.89E+08	No
100-D-56:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	550	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	7.78E+06	No
100-D-56:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,600	2.86E+08	No
100-D-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[b]	No
100-D-56:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,000	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	339,000	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	10	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,100	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	8,830	2.27E+06	No
100-D-56:1_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	240	557,308	No
100-D-56:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51,100	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,900	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Antimony	7440-36-0	ug/kg	500	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Arsenic	7440-38-2	ug/kg	3,421	246,464	No
100-D-56:2_Overburden_4	non-Rad	Barium	7440-39-3	ug/kg	71,232	3.89E+08	No
100-D-56:2_Overburden_4	non-Rad	Beryllium	7440-41-7	ug/kg	984	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Boron	7440-42-8	ug/kg	1,250	7.78E+06	No
100-D-56:2_Overburden_4	non-Rad	Cadmium	7440-43-9	ug/kg	121	26,854	No
100-D-56:2_Overburden_4	non-Rad	Chromium	7440-47-3	ug/kg	17,678	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Cobalt	7440-48-4	ug/kg	7,597	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Copper	7440-50-8	ug/kg	15,676	2.86E+08	No
100-D-56:2_Overburden_4	non-Rad	Fluoride	16984-48-8	ug/kg	1,700	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	371	6,000[b]	No
100-D-56:2_Overburden_4	non-Rad	Lead	7439-92-1	ug/kg	4,232	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Manganese	7439-96-5	ug/kg	311,404	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Molybdenum	7439-98-7	ug/kg	350	1.82E+07	No
100-D-56:2_Overburden_4	non-Rad	Nickel	7440-02-0	ug/kg	11,138	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,188	504,120	No
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	638	50,412	No
100-D-56:2_Overburden_4	non-Rad	Vanadium	7440-62-2	ug/kg	56,980	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Zinc	7440-66-6	ug/kg	56,993	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Arsenic	7440-38-2	ug/kg	2,947	246,464	No
100-D-56:2_Overburden_5	non-Rad	Barium	7440-39-3	ug/kg	67,670	3.89E+08	No
100-D-56:2_Overburden_5	non-Rad	Beryllium	7440-41-7	ug/kg	1,271	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Boron	7440-42-8	ug/kg	1,407	7.78E+06	No
100-D-56:2_Overburden_5	non-Rad	Cadmium	7440-43-9	ug/kg	86	26,854	No
100-D-56:2_Overburden_5	non-Rad	Chromium	7440-47-3	ug/kg	16,179	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Cobalt	7440-48-4	ug/kg	7,547	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Copper	7440-50-8	ug/kg	15,393	2.86E+08	No
100-D-56:2_Overburden_5	non-Rad	Fluoride	16984-48-8	ug/kg	1,091	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	223	6,000[b]	No
100-D-56:2_Overburden_5	non-Rad	Lead	7439-92-1	ug/kg	4,438	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Manganese	7439-96-5	ug/kg	306,866	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Mercury	7439-97-6	ug/kg	21	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Nickel	7440-02-0	ug/kg	10,692	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,535	504,120	No
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	492	50,412	No
100-D-56:2_Overburden_5	non-Rad	Vanadium	7440-62-2	ug/kg	52,528	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Zinc	7440-66-6	ug/kg	41,330	--[a]	--
100-D-56:2_Overburden_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	493	6,000[b]	No
100-D-56:2_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,000	246,464	No
100-D-56:2_Overburden_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	65,000	3.89E+08	No
100-D-56:2_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1,400	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	11,000	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	16,000	2.86E+08	No
100-D-56:2_Overburden_Focused_2	non-Rad	Fluoride	16984-48-8	ug/kg	3,400	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	4,200	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	310,000	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	280	1.82E+07	No
100-D-56:2_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	11,000	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-56:2_Overburden_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,300	504,120	No
100-D-56:2_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,000	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	42,000	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	420	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,208	246,464	No
100-D-56:2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	62,220	3.89E+08	No
100-D-56:2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	405	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,525	7.78E+06	No
100-D-56:2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	65	26,854	No
100-D-56:2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,824	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,636	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	14,188	2.86E+08	No
100-D-56:2_Shallow_1	non-Rad	Fluoride	16984-48-8	ug/kg	1,750	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	244	6,000[b]	No
100-D-56:2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,872	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	306,134	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	9.7	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,388	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	903	504,120	No
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	513	50,412	No
100-D-56:2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	56,966	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41,375	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,810	246,464	No
100-D-56:2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	59,234	3.89E+08	No
100-D-56:2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	328	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,100	7.78E+06	No
100-D-56:2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	84	26,854	No
100-D-56:2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,515	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,536	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,635	2.86E+08	No
100-D-56:2_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	1,708	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,414	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	281,887	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	9.0	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,048	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,478	504,120	No
100-D-56:2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,416	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36,899	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	3,170	246,464	No
100-D-56:2_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	67,570	3.89E+08	No
100-D-56:2_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	1,164	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,605	7.78E+06	No
100-D-56:2_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	96	26,854	No
100-D-56:2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9,261	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	8,173	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	15,431	2.86E+08	No
100-D-56:2_Shallow_3	non-Rad	Fluoride	16984-48-8	ug/kg	1,431	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	659	6,000[b]	No
100-D-56:2_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	5,446	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	322,267	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	10,049	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,431	504,120	No
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	675	50,412	No
100-D-56:2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	64,762	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	46,651	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.92E+06	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	390	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	246,464	No
100-D-56:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,500	3.89E+08	No
100-D-56:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	140	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	7.78E+06	No
100-D-56:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	93	26,854	No
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	29,300	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,800	2.86E+08	No
100-D-56:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	662	6,000[b]	No
100-D-56:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.23E+07	3.89E+08	No
100-D-56:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,700	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300,000	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	7.9	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	1.82E+07	No
100-D-56:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,400	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,600	246,464	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Barium	7440-39-3	ug/kg	79,000	3.89E+08	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	84	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-56:2_Staging pile area footprint_focused	non-Rad	Beryllium	7440-41-7	ug/kg	490	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	7.78E+06	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	26,854	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chrysene	218-01-9	ug/kg	29	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,500	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	2.86E+08	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Manganese	7439-96-5	ug/kg	350,000	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Mercury	7439-97-6	ug/kg	9.7	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nickel	7440-02-0	ug/kg	11,000	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	590	504,120	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Pyrene	129-00-0	ug/kg	15	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Vanadium	7440-62-2	ug/kg	55,000	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Zinc	7440-66-6	ug/kg	44,000	--[a]	--
100-D-61_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.3	--[a]	--
100-D-61_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	5.2	1.38E+07	No
100-D-61_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	491	--[a]	--
100-D-61_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,006	8,715	No
100-D-61_Shallow	non-Rad	Barium	7440-39-3	ug/kg	158,794	1.38E+07	No
100-D-61_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	16	--[a]	--
100-D-61_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.5	--[a]	--
100-D-61_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.5	--[a]	--
100-D-61_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.6	--[a]	--
100-D-61_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	865	--[a]	--
100-D-61_Shallow	non-Rad	Boron	7440-42-8	ug/kg	11,172	275,008	No
100-D-61_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,565	--[a]	--
100-D-61_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	15	--[a]	--
100-D-61_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,407	--[a]	--
100-D-61_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,831	1.01E+07	No
100-D-61_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--[a]	--
100-D-61_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--[a]	--
100-D-61_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	2.6	71,296	No
100-D-61_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	6,000[b]	No
100-D-61_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,459	--[a]	--
100-D-61_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	347,567	--[a]	--
100-D-61_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13	--[a]	--
100-D-61_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	516	643,018	No
100-D-61_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,720	--[a]	--
100-D-61_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	43	--[a]	--
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,040	7,100	No
100-D-61_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	11,436	2.00E+06[c]	No
100-D-61_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,682	--[a]	--
100-D-61_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,816	--[a]	--
100-D-7_Shallow_1	non-Rad	2-Butanone	78-93-3	ug/kg	1.7	2,663	No
100-D-7_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--[a]	--
100-D-7_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	15	3,774	No
100-D-7_Shallow_1	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	0.21	Yes
100-D-7_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.66E+06	--[a]	--
100-D-7_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,524	2,541	No
100-D-7_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	59,795	4.01E+06	No
100-D-7_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	30	--[a]	--
100-D-7_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	126	--[a]	--
100-D-7_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,900	80,178	No
100-D-7_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	46	277	No
100-D-7_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,035	--[a]	--
100-D-7_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,814	--[a]	--
100-D-7_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	11,689	2.95E+06	No
100-D-7_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	130	--[a]	--
100-D-7_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	68	14,821	No
100-D-7_Shallow_1	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.52	1,653	No
100-D-7_Shallow_1	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.75	0.91	No
100-D-7_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	184	6,000[b]	No
100-D-7_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	29	--[a]	--
100-D-7_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	4.01E+06	Yes
100-D-7_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,490	--[a]	--
100-D-7_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	290,472	--[a]	--
100-D-7_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	6.5	--[a]	--
100-D-7_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	10	3.0	Yes

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-7_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	382	187,470	No
100-D-7_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9,120	--[a]	--
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	834	2,070	No
100-D-7_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	0.91	1,032	No
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,386	2.00E+06[c]	No
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,725	2.00E+06[c]	No
100-D-7_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	70,960	--[a]	--
100-D-7_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	43,437	--[a]	--
100-D-7_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.55	--[a]	--
100-D-7_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.88	--[a]	--
100-D-7_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	3,774	No
100-D-7_Shallow_2	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.22	0.21	Yes
100-D-7_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.93E+06	--[a]	--
100-D-7_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,073	2,541	No
100-D-7_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	81,723	4.01E+06	No
100-D-7_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	142	--[a]	--
100-D-7_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--[a]	--
100-D-7_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,533	80,178	No
100-D-7_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	85	277	No
100-D-7_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	9,024	--[a]	--
100-D-7_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,015	--[a]	--
100-D-7_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	11,766	2.95E+06	No
100-D-7_Shallow_2	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.59	1,653	No
100-D-7_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.85	0.91	No
100-D-7_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	236	6,000[b]	No
100-D-7_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.36E+07	4.01E+06	Yes
100-D-7_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,003	--[a]	--
100-D-7_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	343,655	--[a]	--
100-D-7_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	12	--[a]	--
100-D-7_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	3.0	No
100-D-7_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	353	187,470	No
100-D-7_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9,973	--[a]	--
100-D-7_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	410	5,745	No
100-D-7_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,700	2.00E+06[c]	No
100-D-7_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	63,913	--[a]	--
100-D-7_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	46,279	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	6.3	3,774	No
100-D-7_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	0.21	Yes
100-D-7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	2,541	No
100-D-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,300	4.01E+06	No
100-D-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	180	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,200	80,178	No
100-D-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	63	277	No
100-D-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,400	2.95E+06	No
100-D-7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	4.01E+06	Yes
100-D-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,300	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	303,000	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	8.8	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	3.0	Yes
100-D-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,600	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,200	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	42,000	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.82	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.6	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Acetone	67-64-1	ug/kg	6.2	3,774	No
100-D-7_Staging pile area footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.18E+06	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	100	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.9	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	49	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	ug/kg	1,625	2,541	No
100-D-7_Staging pile area footprint	non-Rad	Barium	7440-39-3	ug/kg	72,000	4.01E+06	No
100-D-7_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	ug/kg	155	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,100	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,719	80,178	No
100-D-7_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	ug/kg	103	277	No
100-D-7_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,443	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,081	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Copper	7440-50-8	ug/kg	16,451	2.95E+06	No
100-D-7_Staging pile area footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	452	14,821	No
100-D-7_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	285	6,000[b]	No
100-D-7_Staging pile area footprint	non-Rad	Iron	7439-89-6	ug/kg	1.62E+07	4.01E+06	Yes
100-D-7_Staging pile area footprint	non-Rad	Lead	7439-92-1	ug/kg	5,630	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	279,739	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	ug/kg	304	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.7	3.0	No
100-D-7_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	340	187,470	No
100-D-7_Staging pile area footprint	non-Rad	Nickel	7440-02-0	ug/kg	9,889	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	710	5,745	No
100-D-7_Staging pile area footprint	non-Rad	Toluene	108-88-3	ug/kg	0.72	1,032	No
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,152	2.00E+06[c]	No
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,699	2.00E+06[c]	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-7_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	34,102	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.0	3,767	No
100-D-7_Staging pile area footprint	non-Rad	Zinc	7440-66-6	ug/kg	40,486	--[a]	--
100-D-7_Staging pile area footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.056	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.30E+06	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,800	246,464	No
100-D-70_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99,000	3.89E+08	No
100-D-70_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	250	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	130	26,854	No
100-D-70_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,500	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,900	2.86E+08	No
100-D-70_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	3.89E+08	No
100-D-70_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,300	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.7	290	No
100-D-70_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	1.82E+07	No
100-D-70_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,000	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,200	504,120	No
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,000	2.00E+06[c]	No
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,400	2.00E+06[c]	No
100-D-70_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	61,100	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,800	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.01E+06	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	10	3.89E+08	No
100-D-74_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	246,464	No
100-D-74_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	54,300	3.89E+08	No
100-D-74_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.9	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,400	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	2.86E+08	No
100-D-74_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.29E+07	3.89E+08	No
100-D-74_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	320	1.82E+07	No
100-D-74_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,500	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	40	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,600	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,900	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.82E+06	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	28,659	No
100-D-75:3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,500	4.52E+07	No
100-D-75:3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	76	3,123	No
100-D-75:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,700	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,000	3.33E+07	No
100-D-75:3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	4.52E+07	No
100-D-75:3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,000	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	297,000	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	350	2.11E+06	No
100-D-75:3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,100	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,400	2.00E+06[c]	No
100-D-75:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,600	--[a]	--
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,300	2.00E+06[c]	No
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,600	2.00E+06[c]	No
100-D-82_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.15E+06	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.5	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	7,702	No
100-D-82_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	27,800	1.22E+07	No
100-D-82_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	93	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	49	839	No
100-D-82_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,300	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	8,700	8.95E+06	No
100-D-82_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	9.96E+06	1.22E+07	No
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	134,000	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	164,000	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	290	568,267	No
100-D-82_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6,900	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	17,800	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	37,500	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.62E+06	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	550	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	246,464	No
100-D-83:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,400	3.89E+08	No
100-D-83:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-83:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	52	26,854	No
100-D-83:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,200	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,400	2.86E+08	No
100-D-83:4_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,000	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	172	6,000[b]	No
100-D-83:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.58E+07	3.89E+08	No
100-D-83:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,600	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	950	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	440	1.82E+07	No
100-D-83:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,900	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,600	504,120	No
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,500	504,120	No
100-D-83:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,100	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,100	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.16E+06	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	246,464	No
100-D-84:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	74,700	3.89E+08	No
100-D-84:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.4	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	79	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	7.78E+06	No
100-D-84:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	43	26,854	No
100-D-84:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,800	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,200	2.86E+08	No
100-D-84:1_Shallow_Focused	non-Rad	Diethylphthalate	84-66-2	ug/kg	72	1.44E+06	No
100-D-84:1_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.87E+07	3.89E+08	No
100-D-84:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	343,000	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	120	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	1.82E+07	No
100-D-84:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	9,400	504,120	No
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	10,200	504,120	No
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	52,500	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.99E+06	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,100	246,464	No
100-D-85:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,900	3.89E+08	No
100-D-85:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	88	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,400	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	11,600	2.86E+08	No
100-D-85:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.89E+08	No
100-D-85:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,800	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	1.82E+07	No
100-D-85:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,500	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,100	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.62E+06	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	480	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,000	22,406	No
100-D-87_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	89,200	3.54E+07	No
100-D-87_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	45	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	55	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	180	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,400	707,021	No
100-D-87_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	450	2,441	No
100-D-87_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,300	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	64	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,800	2.60E+07	No
100-D-87_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	41	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.54E+07	No
100-D-87_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	19,300	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	304,000	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	380	1.65E+06	No
100-D-87_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	55	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,000	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,600	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.71E+06	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	510	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	246,464	No
100-D-88_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	105,000	3.89E+08	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	7.78E+06	No
100-D-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,400	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,500	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	29,200	2.86E+08	No
100-D-88_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,900	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	6,000[b]	No
100-D-88_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	3.09E+07	3.89E+08	No
100-D-88_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	384,000	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	12	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	290	No
100-D-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	1.82E+07	No
100-D-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,400	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,900	504,120	No
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,800	504,120	No
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,300	2.00E+06[c]	No
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	15,000	2.00E+06[c]	No
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	104,000	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	63,900	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	7.0	215,347	No
100-D-9_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.89E+06	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,200	144,979	No
100-D-9_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	63,800	2.29E+08	No
100-D-9_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	470	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	29	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	820	4.57E+06	No
100-D-9_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	170	15,796	No
100-D-9_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,600	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,300	1.68E+08	No
100-D-9_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	25	1.21E+06	No
100-D-9_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.51E+07	2.29E+08	No
100-D-9_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,000	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	299,000	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	8.0	170	No
100-D-9_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	450	1.07E+07	No
100-D-9_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,100	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	67,300	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,100	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.97E+06	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	450	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	246,464	No
100-D-94_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,800	3.89E+08	No
100-D-94_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,300	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,000	2.86E+08	No
100-D-94_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	3.89E+08	No
100-D-94_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,700	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	275,000	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	580	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,000	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	504,120	No
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,700	504,120	No
100-D-94_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,200	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	38,700	--[a]	--
116-D-10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	--[a]	--
116-D-10_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	463	--[a]	--
116-D-10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,666	16,215	No
116-D-10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	69,640	2.56E+07	No
116-D-10_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	227	--[a]	--
116-D-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,220	511,660	No
116-D-10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	109	1,767	No
116-D-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,278	--[a]	--
116-D-10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,369	--[a]	--
116-D-10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,218	1.88E+07	No
116-D-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	213	6,000[b]	No
116-D-10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	2.56E+07	No
116-D-10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,465	--[a]	--
116-D-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	320,612	--[a]	--
116-D-10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	383	1.20E+06	No
116-D-10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,914	--[a]	--
116-D-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,491	--[d]	--
116-D-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	67,123	--[a]	--
116-D-10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,464	--[a]	--
116-D-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.092	--[a]	--
116-D-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[d]	--
116-D-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[d]	--
116-D-10_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	4.68E+06	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Antimony	7440-36-0	ug/kg	484	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	2,037	16,215	No
116-D-10_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	60,780	2.56E+07	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-D-10_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	171	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	856	511,660	No
116-D-10_Staging Pile Area	non-Rad	Cadmium	7440-43-9	ug/kg	99	1,767	No
116-D-10_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	5,983	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	8,902	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	13,930	1.88E+07	No
116-D-10_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	168	6,000[b]	No
116-D-10_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	2.62E+07	2.56E+07	Yes
116-D-10_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	2,894	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	318,856	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	15	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	414	1.20E+06	No
116-D-10_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	8,845	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Silver	7440-22-4	ug/kg	180	36,665	No
116-D-10_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,547	--[d]	--
116-D-10_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	76,278	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	45,859	--[a]	--
116-D-10_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.079	--[a]	--
116-D-10_Staging Pile Area	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.89	1,931	No
116-D-10_Staging Pile Area	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	--[d]	--
116-D-10_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.52	--[d]	--
116-D-1A_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,740	6,000[b]	No
116-D-1A_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,667	--[d]	--
116-D-1A_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.7	--[a]	--
116-D-1A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	409	--[a]	--
116-D-1A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.8	--[a]	--
116-D-1A_Deep	Rad	Europium-152	14683-23-9	pCi/g	193	--[a]	--
116-D-1A_Deep	Rad	Europium-154	15585-10-1	pCi/g	16	--[a]	--
116-D-1A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.20	--[a]	--
116-D-1A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	11	--[a]	--
116-D-1A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21	29,357	No
116-D-1A_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[d]	--
116-D-1A_Deep	Rad	Uranium-238	U-238	pCi/g	0.56	--[d]	--
116-D-1A_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	611	6,000[b]	No
116-D-1A_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,451	--[d]	--
116-D-1A_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.15	--[a]	--
116-D-1A_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.76	--[a]	--
116-D-1A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--[a]	--
116-D-1A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	9,786	No
116-D-1A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[d]	--
116-D-1A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[d]	--
116-D-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,423	--[d]	--
116-D-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.068	--[a]	--
116-D-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	--[d]	--
116-D-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.032	--[d]	--
116-D-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.47	--[d]	--
116-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,268	--[d]	--
116-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.050	--[a]	--
116-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[d]	--
116-D-4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.060	--[d]	--
116-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.42	--[d]	--
116-D-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.96	--[a]	--
116-D-5_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	7.77E+06	--[a]	--
116-D-5_Deep	non-Rad	Antimony	7440-36-0	ug/kg	358	--[a]	--
116-D-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,033	7,042	No
116-D-5_Deep	non-Rad	Barium	7440-39-3	ug/kg	71,855	1.11E+07	No
116-D-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	95	--[a]	--
116-D-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	63	--[a]	--
116-D-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--[a]	--
116-D-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--[a]	--
116-D-5_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	227	--[a]	--
116-D-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	--[a]	--
116-D-5_Deep	non-Rad	Boron	7440-42-8	ug/kg	957	222,207	No
116-D-5_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	87	767	No
116-D-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	17,916	--[a]	--
116-D-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	87	--[a]	--
116-D-5_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	9,088	--[a]	--
116-D-5_Deep	non-Rad	Copper	7440-50-8	ug/kg	18,442	8.18E+06	No
116-D-5_Deep	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	36	--[a]	--
116-D-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	90	--[a]	--
116-D-5_Deep	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	--[a]	--
116-D-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	353	6,000[b]	No
116-D-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	62	--[a]	--
116-D-5_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.41E+07	1.11E+07	Yes
116-D-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,457	--[a]	--
116-D-5_Deep	non-Rad	Manganese	7439-96-5	ug/kg	338,530	--[a]	--
116-D-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	318	--[a]	--
116-D-5_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	350	519,559	No
116-D-5_Deep	non-Rad	Nickel	7440-02-0	ug/kg	13,273	--[a]	--
116-D-5_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	35,000	64,815	No
116-D-5_Deep	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	11,300	14,403	No
116-D-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	7,925	14,403	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-D-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	155	--[a]	--
116-D-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,735	--[d]	--
116-D-5_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	58,449	--[a]	--
116-D-5_Deep	non-Rad	Zinc	7440-66-6	ug/kg	50,192	--[a]	--
116-D-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1.1	--[a]	--
116-D-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.52	--[a]	--
116-D-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	839	No
116-D-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	--[d]	--
116-D-5_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.27	--[d]	--
116-D-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	--[d]	--
116-D-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.08E+06	--[a]	--
116-D-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	12	1.11E+07	No
116-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,147	7,042	No
116-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	58,354	1.11E+07	No
116-D-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[a]	--
116-D-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--[a]	--
116-D-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	55	--[a]	--
116-D-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--[a]	--
116-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	177	--[a]	--
116-D-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	854	--[a]	--
116-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	850	222,207	No
116-D-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	62	767	No
116-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,881	--[a]	--
116-D-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	33	--[a]	--
116-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,546	--[a]	--
116-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,050	8.18E+06	No
116-D-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.5	--[a]	--
116-D-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	131	--[a]	--
116-D-5_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.5	--[a]	--
116-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	151	6,000[b]	No
116-D-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[a]	--
116-D-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	1.11E+07	Yes
116-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,606	--[c]	--
116-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	284,702	--[a]	--
116-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	--[a]	--
116-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	305	519,559	No
116-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	8,734	--[a]	--
116-D-5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	29,337	64,815	No
116-D-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,757	14,403	No
116-D-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	79	--[a]	--
116-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,106	--[d]	--
116-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	56,601	--[a]	--
116-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,706	--[a]	--
116-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
116-D-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.10	--[a]	--
116-D-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	2.8	--[a]	--
116-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	--[d]	--
116-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	--[d]	--
116-D-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.94E+06	--[a]	--
116-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,877	7,042	No
116-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,089	1.11E+07	No
116-D-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	10	--[a]	--
116-D-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--[a]	--
116-D-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[a]	--
116-D-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.0	--[a]	--
116-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	212	--[a]	--
116-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,134	222,207	No
116-D-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	67	767	No
116-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,365	--[a]	--
116-D-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	13	--[a]	--
116-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,905	--[a]	--
116-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,071	8.18E+06	No
116-D-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	13	--[a]	--
116-D-5_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	480	--[b]	--
116-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	6,000[b]	No
116-D-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--[a]	--
116-D-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.35E+07	1.11E+07	Yes
116-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,775	--[c]	--
116-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	324,766	--[a]	--
116-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	65	--[a]	--
116-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	314	519,559	No
116-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,277	--[a]	--
116-D-5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	9,325	64,815	No
116-D-5_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	91,100	4,753	Yes
116-D-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,479	14,403	No
116-D-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	14	--[a]	--
116-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	1,300	15,923	No
116-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,935	--[d]	--
116-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	62,589	--[a]	--
116-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	51,204	--[a]	--
116-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.43	--[a]	--
116-D-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.5	--[a]	--
116-D-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	--[a]	--
116-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.65	--[d]	--
116-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	--[d]	--
116-D-5_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	6.6	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Aluminum	7429-90-5	ug/kg	5.64E+06	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Antimony	7440-36-0	ug/kg	239	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,371	7,042	No
116-D-5_Staging pile area footprint	non-Rad	Barium	7440-39-3	ug/kg	61,781	1.11E+07	No
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.2	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.0	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	ug/kg	185	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.5	2.4	No
116-D-5_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,067	222,207	No
116-D-5_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	ug/kg	59	767	No
116-D-5_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,014	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Chrysene	218-01-9	ug/kg	12	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	ug/kg	7,289	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Copper	7440-50-8	ug/kg	14,234	8.18E+06	No
116-D-5_Staging pile area footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.4	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	8.8	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Fluoride	16984-48-8	ug/kg	300	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	149	6,000[b]	No
116-D-5_Staging pile area footprint	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	1.11E+07	Yes
116-D-5_Staging pile area footprint	non-Rad	Lead	7439-92-1	ug/kg	3,269	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	276,906	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Methoxychlor	72-43-5	ug/kg	20	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	281	519,559	No
116-D-5_Staging pile area footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,057	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Nitrate	14797-55-8	ug/kg	13,893	64,815	No
116-D-5_Staging pile area footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,627	14,403	No
116-D-5_Staging pile area footprint	non-Rad	Pyrene	129-00-0	ug/kg	6.2	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	228	15,923	No
116-D-5_Staging pile area footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,770	--[d]	--
116-D-5_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	52,464	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Zinc	7440-66-6	ug/kg	41,996	--[a]	--
116-D-5_Staging pile area footprint	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	--[d]	--
116-D-5_Staging pile area footprint	Rad	Uranium-238	U-238	pCi/g	0.59	--[d]	--
116-D-6_Deep	non-Rad	Acetone	67-64-1	ug/kg	10	366,090	No
116-D-6_Deep	non-Rad	Barium	7440-39-3	ug/kg	54,700	3.89E+08	No
116-D-6_Deep	non-Rad	Chromium	7440-47-3	ug/kg	9,200	--[a]	--
116-D-6_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,800	--[a]	--
116-D-6_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	--[a]	--
116-D-6_Deep	non-Rad	Methylene chloride	75-09-2	ug/kg	10	290	No
116-D-6_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,265	--[d]	--
116-D-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.54	--[a]	--
116-D-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.9	--[a]	--
116-D-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.15	--[a]	--
116-D-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.038	--[a]	--
116-D-6_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[d]	--
116-D-6_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.081	--[d]	--
116-D-6_Deep	Rad	Uranium-238	U-238	pCi/g	0.43	--[d]	--
116-D-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	217,059	--[a]	--
116-D-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3,737	6,000[b]	No
116-D-7_Deep	non-Rad	Lead	7439-92-1	ug/kg	7,751	--[a]	--
116-D-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,873	--[a]	--
116-D-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	31	--[a]	--
116-D-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	23	--[a]	--
116-D-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	265	--[a]	--
116-D-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	37	--[a]	--
116-D-7_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.7	--[a]	--
116-D-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	725	--[a]	--
116-D-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.049	--[a]	--
116-D-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.96	--[a]	--
116-D-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	421	No
116-D-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,241	--[a]	--
116-D-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,126	6,000[b]	No
116-D-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,655	--[a]	--
116-D-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,474	--[d]	--
116-D-7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.014	--[a]	--
116-D-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
116-D-7_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.050	--[a]	--
116-D-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--[a]	--
116-D-7_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.047	--[a]	--
116-D-7_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.8	--[a]	--
116-D-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[d]	--
116-D-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.040	--[d]	--
116-D-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[d]	--
116-D-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.3	11,033	No
116-D-8_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	21	1.17E+07	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-D-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	385	--[a]	--
116-D-8_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	27	--[a]	--
116-D-8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,906	7,428	No
116-D-8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	71,253	1.17E+07	No
116-D-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	31	--[a]	--
116-D-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--[a]	--
116-D-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	49	--[a]	--
116-D-8_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	475	--[a]	--
116-D-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	200	--[a]	--
116-D-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,417	234,395	No
116-D-8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	61	809	No
116-D-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,654	--[a]	--
116-D-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	660	--[a]	--
116-D-8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,732	--[a]	--
116-D-8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,183	8.63E+06	No
116-D-8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	56	--[a]	--
116-D-8_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	2,048	--[a]	--
116-D-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	41,188	--[a]	--
116-D-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	304,542	--[a]	--
116-D-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	23	--[a]	--
116-D-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	10	8.7	Yes
116-D-8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,657	--[a]	--
116-D-8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,208	15,193	No
116-D-8_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,943	15,193	No
116-D-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	24	--[a]	--
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	11,473	2.00E+06[c]	No
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,750	2.00E+06[c]	No
116-D-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	436	--[d]	--
116-D-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,268	--[a]	--
116-D-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	46,326	--[a]	--
116-D-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.7	--[d]	--
116-D-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39	885	No
116-D-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.15	--[d]	--
116-D-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.15	--[d]	--
116-D-8_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.37E+06	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.6	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,800	7,428	No
116-D-8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	47,900	1.17E+07	No
116-D-8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	41	809	No
116-D-8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	5,600	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,200	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	12,800	8.63E+06	No
116-D-8_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	1.47E+07	1.17E+07	Yes
116-D-8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	35,000	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	232,000	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	9,700	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	22,100	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	26,900	--[a]	--
116-D-8_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	0.50	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	5.77E+06	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	490	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	96	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	180	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,700	7,428	No
116-D-8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	77,900	1.17E+07	No
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	29	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	27	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	53	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	2,700	234,395	No
116-D-8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	170	809	No
116-D-8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	10,100	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	45	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,000	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15,300	8.63E+06	No
116-D-8_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	52	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	6,000[b]	No
116-D-8_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	1.17E+07	Yes
116-D-8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,800	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	301,000	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	29	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	8.7	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-D-8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	370	548,058	No
116-D-8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	9,900	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	5,000	15,193	No
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,300	15,193	No
116-D-8_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	53	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1,200	6,052	No
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,000	2.00E+06[c]	No
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	46,000	2.00E+06[c]	No
116-D-8_Shallow_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	765	--[d]	--
116-D-8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	58,700	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	55,200	--[a]	--
116-D-8_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	7.6	--[a]	--
116-D-8_Shallow_Focused_2	Rad	Uranium-234	13966-29-5	pCi/g	0.20	--[d]	--
116-D-8_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.26	--[d]	--
116-D-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,648	--[d]	--
116-D-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.055	--[a]	--
116-D-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.56	29,357	No
116-D-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	--[d]	--
116-D-9_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.051	--[d]	--
116-D-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	--[d]	--
116-DR-1,2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	900	6,000[b]	No
116-DR-1,2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	75	--[a]	--
116-DR-1,2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	3.5	--[a]	--
116-DR-1,2_Deep	Rad	Europium-152	14683-23-9	pCi/g	126	--[a]	--
116-DR-1,2_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.1	--[a]	--
116-DR-1,2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	49	--[a]	--
116-DR-1,2_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.077	--[a]	--
116-DR-1,2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.3	--[a]	--
116-DR-1,2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	29	1,012	No
116-DR-1,2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,432	--[d]	--
116-DR-1,2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.68	--[a]	--
116-DR-1,2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	--[a]	--
116-DR-1,2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--[a]	--
116-DR-1,2_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.029	--[a]	--
116-DR-1,2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[d]	--
116-DR-1,2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.027	--[d]	--
116-DR-1,2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.48	--[d]	--
116-DR-10_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	--[a]	--
116-DR-10_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.0	--[a]	--
116-DR-10_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,958	8,262	No
116-DR-10_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,524	1.30E+07	No
116-DR-10_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	190	--[a]	--
116-DR-10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,049	260,719	No
116-DR-10_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	88	900	No
116-DR-10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,292	--[a]	--
116-DR-10_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,708	--[a]	--
116-DR-10_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,263	9.60E+06	No
116-DR-10_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	1.30E+07	Yes
116-DR-10_Overburden	non-Rad	Lead	7439-92-1	ug/kg	7,026	--[a]	--
116-DR-10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	288,834	--[a]	--
116-DR-10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	35	--[b]	--
116-DR-10_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	307	609,606	No
116-DR-10_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,734	--[a]	--
116-DR-10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,831	--[d]	--
116-DR-10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51,136	--[a]	--
116-DR-10_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,621	--[a]	--
116-DR-10_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	--[d]	--
116-DR-10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.62	--[d]	--
116-DR-10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.96E+06	--[a]	--
116-DR-10_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--[a]	--
116-DR-10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,821	6,188	No
116-DR-10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57,993	9.77E+06	No
116-DR-10_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	182	--[a]	--
116-DR-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,035	195,261	No
116-DR-10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	101	674	No
116-DR-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,445	--[a]	--
116-DR-10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,101	--[a]	--
116-DR-10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,970	7.19E+06	No
116-DR-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	100	6,000[b]	No
116-DR-10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.00E+07	9.77E+06	Yes
116-DR-10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,281	--[a]	--
116-DR-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,317	--[a]	--
116-DR-10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	--[b]	--
116-DR-10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	332	456,554	No
116-DR-10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,308	--[a]	--
116-DR-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,926	--[d]	--
116-DR-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,456	--[a]	--
116-DR-10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,543	--[a]	--
116-DR-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	--[a]	--
116-DR-10_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.16	--[a]	--
116-DR-10_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.043	--[a]	--
116-DR-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[d]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-DR-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	--[d]	--
116-DR-10_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.99E+06	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,790	246,464	No
116-DR-10_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	41,600	3.89E+08	No
116-DR-10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	161	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	598	7.78E+06	No
116-DR-10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	143	26,854	No
116-DR-10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,650	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,370	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	2.86E+08	No
116-DR-10_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	240	6,000[b]	No
116-DR-10_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.66E+07	3.89E+08	No
116-DR-10_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,750	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	310,000	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	13	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	497	1.82E+07	No
116-DR-10_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,630	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,164	--[d]	--
116-DR-10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	73,400	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,500	--[a]	--
116-DR-10_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.65	--[a]	--
116-DR-10_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.58	--[a]	--
116-DR-10_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	--[a]	--
116-DR-10_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	--[d]	--
116-DR-10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.39	--[d]	--
116-DR-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,477	--[d]	--
116-DR-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	--[a]	--
116-DR-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.65	--[d]	--
116-DR-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[d]	--
116-DR-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	7.32E+06	--[a]	--
116-DR-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,616	8,215	No
116-DR-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	72,420	1.30E+07	No
116-DR-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	74	--[a]	--
116-DR-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[a]	--
116-DR-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	102	--[a]	--
116-DR-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[a]	--
116-DR-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,142	259,241	No
116-DR-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,534	--[a]	--
116-DR-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	92	--[a]	--
116-DR-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,716	--[a]	--
116-DR-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	21,451	9.54E+06	No
116-DR-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--[a]	--
116-DR-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	258	6,000[b]	No
116-DR-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--[a]	--
116-DR-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	1.30E+07	Yes
116-DR-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,039	--[a]	--
116-DR-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	336,163	--[a]	--
116-DR-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	51	--[a]	--
116-DR-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,348	--[a]	--
116-DR-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	87	--[a]	--
116-DR-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,213	--[d]	--
116-DR-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	59,625	--[a]	--
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	76,417	--[a]	--
116-DR-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.25	--[a]	--
116-DR-5_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.20	--[a]	--
116-DR-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.80	--[a]	--
116-DR-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	29	--[a]	--
116-DR-5_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.11	--[a]	--
116-DR-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	979	No
116-DR-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.20	69	No
116-DR-5_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.77	--[d]	--
116-DR-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.062	--[d]	--
116-DR-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.74	--[d]	--
116-DR-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.83E+06	--[a]	--
116-DR-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,551	8,215	No
116-DR-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,792	1.30E+07	No
116-DR-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	146	--[a]	--
116-DR-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[a]	--
116-DR-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	178	--[a]	--
116-DR-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	246	--[a]	--
116-DR-5_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	67	--[a]	--
116-DR-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,500	259,241	No
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	25,436	--[a]	--
116-DR-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	169	--[a]	--
116-DR-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,533	--[a]	--
116-DR-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	21,728	9.54E+06	No
116-DR-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	250	--[a]	--
116-DR-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	554	6,000[b]	No
116-DR-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	38	--[a]	--
116-DR-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.23E+07	1.30E+07	Yes
116-DR-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,907	--[a]	--
116-DR-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	309,849	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-DR-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	48	--[b]	--
116-DR-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	540	606,152	No
116-DR-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,850	--[a]	--
116-DR-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	237	--[a]	--
116-DR-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,812	--[d]	--
116-DR-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	55,591	--[a]	--
116-DR-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,492	--[a]	--
116-DR-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.96	--[c]	--
116-DR-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	--[a]	--
116-DR-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.5	--[a]	--
116-DR-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	30	--[a]	--
116-DR-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.12	--[a]	--
116-DR-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	979	No
116-DR-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.20	69	No
116-DR-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.0	--[d]	--
116-DR-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.42	--[d]	--
116-DR-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.93	--[d]	--
116-DR-5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.65E+06	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	8,215	No
116-DR-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,300	1.30E+07	No
116-DR-5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	56	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	70	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	71	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	259,241	No
116-DR-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,600	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	62	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	26,100	9.54E+06	No
116-DR-5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	94	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	361	6,000[b]	No
116-DR-5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.31E+07	1.30E+07	Yes
116-DR-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,500	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325,000	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,900	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	100	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,274	--[d]	--
116-DR-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	56,300	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,400	--[a]	--
116-DR-5_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.95	--[c]	--
116-DR-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.53	--[c]	--
116-DR-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.1	--[c]	--
116-DR-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.30	69	No
116-DR-5_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.89	--[d]	--
116-DR-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.76	--[d]	--
116-DR-5_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	6.36E+06	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	2,837	9,479	No
116-DR-5_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	58,874	1.50E+07	No
116-DR-5_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	110	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	62	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	11,197	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	7,808	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	17,612	1.10E+07	No
116-DR-5_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	427	6,000[b]	No
116-DR-5_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	2.01E+07	1.50E+07	Yes
116-DR-5_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	2,929	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	292,940	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	24	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	11,700	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,095	--[d]	--
116-DR-5_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	51,250	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	39,187	--[a]	--
116-DR-5_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.14	--[a]	--
116-DR-5_Staging Pile Area	Rad	Tritium	10028-17-8	pCi/g	0.20	79	No
116-DR-5_Staging Pile Area	Rad	Uranium-234	13966-29-5	pCi/g	0.72	--[d]	--
116-DR-5_Staging Pile Area	Rad	Uranium-235	15117-96-1	pCi/g	0.11	--[d]	--
116-DR-5_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.70	--[d]	--
116-DR-6_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,369	--[d]	--
116-DR-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.5	--[a]	--
116-DR-6_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.31	--[a]	--
116-DR-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	14	--[c]	--
116-DR-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4	--[a]	--
116-DR-6_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	--[a]	--
116-DR-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.77	--[a]	--
116-DR-6_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.1	9,786	No
116-DR-6_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.53	--[d]	--
116-DR-6_Deep	Rad	Uranium-238	U-238	pCi/g	0.46	--[d]	--
116-DR-6_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,417	--[d]	--
116-DR-6_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.091	--[a]	--
116-DR-6_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.48	--[a]	--
116-DR-6_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.43	9,786	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-DR-6_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	--[d]	--
116-DR-6_Shallow	Rad	Uranium-238	U-238	pCi/g	0.48	--[d]	--
116-DR-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,586	--[d]	--
116-DR-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.073	--[a]	--
116-DR-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--[a]	--
116-DR-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	--[d]	--
116-DR-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.12	--[d]	--
116-DR-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.51	--[d]	--
116-DR-8_Overburden_2	non-Rad	Acetone	67-64-1	ug/kg	26	12,203	No
116-DR-8_Overburden_2	non-Rad	Antimony	7440-36-0	ug/kg	535	--[a]	--
116-DR-8_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,248	8,215	No
116-DR-8_Overburden_2	non-Rad	Barium	7440-39-3	ug/kg	51,821	1.30E+07	No
116-DR-8_Overburden_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	77	--[a]	--
116-DR-8_Overburden_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	46	--[a]	--
116-DR-8_Overburden_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	95	--[a]	--
116-DR-8_Overburden_2	non-Rad	Beryllium	7440-41-7	ug/kg	555	--[a]	--
116-DR-8_Overburden_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	347	--[a]	--
116-DR-8_Overburden_2	non-Rad	Chromium	7440-47-3	ug/kg	7,334	--[a]	--
116-DR-8_Overburden_2	non-Rad	Chrysene	218-01-9	ug/kg	110	--[a]	--
116-DR-8_Overburden_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,689	--[a]	--
116-DR-8_Overburden_2	non-Rad	Copper	7440-50-8	ug/kg	13,745	9.54E+06	No
116-DR-8_Overburden_2	non-Rad	Fluoranthene	206-44-0	ug/kg	180	--[a]	--
116-DR-8_Overburden_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	6,000[b]	No
116-DR-8_Overburden_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--[a]	--
116-DR-8_Overburden_2	non-Rad	Lead	7439-92-1	ug/kg	3,831	--[a]	--
116-DR-8_Overburden_2	non-Rad	Lithium	7439-93-2	ug/kg	6,086	--[a]	--
116-DR-8_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	323,773	--[a]	--
116-DR-8_Overburden_2	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	9.7	No
116-DR-8_Overburden_2	non-Rad	Nickel	7440-02-0	ug/kg	11,376	--[a]	--
116-DR-8_Overburden_2	non-Rad	Pyrene	129-00-0	ug/kg	120	--[a]	--
116-DR-8_Overburden_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	898	--[d]	--
116-DR-8_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	65,299	--[a]	--
116-DR-8_Overburden_2	non-Rad	Zinc	7440-66-6	ug/kg	47,917	--[a]	--
116-DR-8_Overburden_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.091	--[a]	--
116-DR-8_Overburden_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	979	No
116-DR-8_Overburden_2	Rad	Uranium-234	13966-29-5	pCi/g	0.28	--[d]	--
116-DR-8_Overburden_2	Rad	Uranium-238	U-238	pCi/g	0.30	--[d]	--
116-DR-8_Overburden_3	non-Rad	Acetone	67-64-1	ug/kg	8.6	11,972	No
116-DR-8_Overburden_3	non-Rad	Antimony	7440-36-0	ug/kg	747	--[a]	--
116-DR-8_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,507	8,060	No
116-DR-8_Overburden_3	non-Rad	Barium	7440-39-3	ug/kg	63,744	1.27E+07	No
116-DR-8_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	1,958	--[a]	--
116-DR-8_Overburden_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	133	--[a]	--
116-DR-8_Overburden_3	non-Rad	Boron	7440-42-8	ug/kg	1,274	254,324	No
116-DR-8_Overburden_3	non-Rad	Cadmium	7440-43-9	ug/kg	78	878	No
116-DR-8_Overburden_3	non-Rad	Chromium	7440-47-3	ug/kg	9,365	--[a]	--
116-DR-8_Overburden_3	non-Rad	Chrysene	218-01-9	ug/kg	30	--[a]	--
116-DR-8_Overburden_3	non-Rad	Cobalt	7440-48-4	ug/kg	9,279	--[a]	--
116-DR-8_Overburden_3	non-Rad	Copper	7440-50-8	ug/kg	13,021	9.36E+06	No
116-DR-8_Overburden_3	non-Rad	Lead	7439-92-1	ug/kg	4,813	--[a]	--
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	ug/kg	27,770	--[a]	--
116-DR-8_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	348,289	--[a]	--
116-DR-8_Overburden_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	9.5	No
116-DR-8_Overburden_3	non-Rad	Molybdenum	7439-98-7	ug/kg	370	594,655	No
116-DR-8_Overburden_3	non-Rad	Nickel	7440-02-0	ug/kg	11,807	--[a]	--
116-DR-8_Overburden_3	non-Rad	Pyrene	129-00-0	ug/kg	17	--[a]	--
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	2,200	18,225	No
116-DR-8_Overburden_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	478	--[d]	--
116-DR-8_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	70,346	--[a]	--
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	72,846	--[a]	--
116-DR-8_Overburden_3	Rad	Cesium-137	10045-97-3	pCi/g	0.11	--[a]	--
116-DR-8_Overburden_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	960	No
116-DR-8_Overburden_3	Rad	Uranium-234	13966-29-5	pCi/g	0.15	--[d]	--
116-DR-8_Overburden_3	Rad	Uranium-238	U-238	pCi/g	0.16	--[d]	--
116-DR-8_Shallow	non-Rad	1,2-Dichlorobenzene	95-50-1	ug/kg	26	6,827	No
116-DR-8_Shallow	non-Rad	2,4,5-Trichlorophenol	95-95-4	ug/kg	10	34,950	No
116-DR-8_Shallow	non-Rad	2,4-Dichlorophenol	120-83-2	ug/kg	11	129	No
116-DR-8_Shallow	non-Rad	2-Chloronaphthalene	91-58-7	ug/kg	11	43,035	No
116-DR-8_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	62,987	No
116-DR-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	19	12,203	No
116-DR-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	531	--[a]	--
116-DR-8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,452	8,215	No
116-DR-8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	65,315	1.30E+07	No
116-DR-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--[a]	--
116-DR-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	28	--[a]	--
116-DR-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--[a]	--
116-DR-8_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,024	--[a]	--
116-DR-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	210	--[a]	--
116-DR-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,783	259,241	No
116-DR-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,235	--[a]	--
116-DR-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--[a]	--
116-DR-8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,776	--[a]	--
116-DR-8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,953	9.54E+06	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-DR-8_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	25	--[a]	--
116-DR-8_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	192	6,000[b]	No
116-DR-8_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--[a]	--
116-DR-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,208	--[a]	--
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	70,444	--[a]	--
116-DR-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,029	--[a]	--
116-DR-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.5	--[a]	--
116-DR-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	9.7	No
116-DR-8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	640	606,152	No
116-DR-8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,727	--[a]	--
116-DR-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	19	--[a]	--
116-DR-8_Shallow	non-Rad	Toluene	108-88-3	ug/kg	1.1	3,336	No
116-DR-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	585	--[d]	--
116-DR-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	64,429	--[a]	--
116-DR-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,213	--[a]	--
116-DR-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.15	--[a]	--
116-DR-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	979	No
116-DR-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.18	--[d]	--
116-DR-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20	--[d]	--
116-DR-9_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	75	--[a]	--
116-DR-9_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	123	--[a]	--
116-DR-9_Deep	non-Rad	Chromium	7440-47-3	ug/kg	20,225	--[a]	--
116-DR-9_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,100	--[a]	--
116-DR-9_Deep	Rad	Cesium-137	10045-97-3	pCi/g	11	--[a]	--
116-DR-9_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.7	--[a]	--
116-DR-9_Deep	Rad	Europium-152	14683-23-9	pCi/g	26	--[a]	--
116-DR-9_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.5	--[a]	--
116-DR-9_Deep	Rad	Nickel-63	13981-37-8	pCi/g	54	--[a]	--
116-DR-9_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.33	--[a]	--
116-DR-9_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	154	No
116-DR-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	16,093	--[a]	--
116-DR-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	6,000[b]	No
116-DR-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,838	--[a]	--
116-DR-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	10	--[a]	--
116-DR-9_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.044	--[a]	--
116-DR-9_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.43	--[a]	--
116-DR-9_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.071	--[a]	--
116-DR-9_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	5.0	--[a]	--
116-DR-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.36	--[a]	--
116-DR-9_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.72	--[a]	--
116-DR-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.26	1,468	No
118-D-1_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	5.68E+06	--[a]	--
118-D-1_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	2,356	4,108	No
118-D-1_Deep	non-Rad	Barium	7440-39-3	ug/kg	59,180	6.48E+06	No
118-D-1_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	227	--[a]	--
118-D-1_Deep	non-Rad	Boron	7440-42-8	ug/kg	2,100	129,621	No
118-D-1_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	56	448	No
118-D-1_Deep	non-Rad	Chromium	7440-47-3	ug/kg	7,521	--[a]	--
118-D-1_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	10,247	--[a]	--
118-D-1_Deep	non-Rad	Copper	7440-50-8	ug/kg	16,443	4.77E+06	No
118-D-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	344	6,000[b]	No
118-D-1_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	6.48E+06	Yes
118-D-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,445	--[a]	--
118-D-1_Deep	non-Rad	Manganese	7439-96-5	ug/kg	312,532	--[a]	--
118-D-1_Deep	non-Rad	Mercury	7439-97-6	ug/kg	18	--[a]	--
118-D-1_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	288	303,076	No
118-D-1_Deep	non-Rad	Nickel	7440-02-0	ug/kg	10,508	--[a]	--
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	18,960	2.00E+06[c]	No
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	59,000	2.00E+06[c]	No
118-D-1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,165	--[d]	--
118-D-1_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	74,430	--[a]	--
118-D-1_Deep	non-Rad	Zinc	7440-66-6	ug/kg	48,322	--[a]	--
118-D-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.10	--[a]	--
118-D-1_Deep	Rad	Tritium	10028-17-8	pCi/g	0.081	34	No
118-D-1_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.74	--[d]	--
118-D-1_Deep	Rad	Uranium-238	U-238	pCi/g	0.73	--[d]	--
118-D-1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.71E+06	--[a]	--
118-D-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,014	4,108	No
118-D-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	69,918	6.48E+06	No
118-D-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--[a]	--
118-D-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	245	--[a]	--
118-D-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,233	129,621	No
118-D-1_Overburden	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	110	21,701	No
118-D-1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	65	448	No
118-D-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,001	--[a]	--
118-D-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,318	--[a]	--
118-D-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,107	4.77E+06	No
118-D-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	397	6,000[b]	No
118-D-1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.00E+07	6.48E+06	Yes
118-D-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,919	--[a]	--
118-D-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306,161	--[a]	--
118-D-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.3	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-D-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	760	303,076	No
118-D-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,640	--[a]	--
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	870	2.00E+06[c]	No
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,300	2.00E+06[c]	No
118-D-1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,197	--[d]	--
118-D-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50,373	--[a]	--
118-D-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,461	--[a]	--
118-D-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.080	--[a]	--
118-D-1_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.041	34	No
118-D-1_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.75	--[d]	--
118-D-1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.74	--[d]	--
118-D-1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.52E+06	--[a]	--
118-D-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,632	9,859	No
118-D-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	60,015	1.56E+07	No
118-D-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	230	--[a]	--
118-D-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,700	311,089	No
118-D-1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	44	1,074	No
118-D-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	9,458	--[a]	--
118-D-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,736	--[a]	--
118-D-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	16,752	1.15E+07	No
118-D-1_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	6,000[b]	No
118-D-1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	1.56E+07	Yes
118-D-1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,664	--[a]	--
118-D-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	288,049	--[a]	--
118-D-1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	17	--[a]	--
118-D-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	320	727,382	No
118-D-1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,504	--[a]	--
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,471	2.00E+06[c]	No
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,642	2.00E+06[c]	No
118-D-1_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,395	--[d]	--
118-D-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	59,298	--[a]	--
118-D-1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41,624	--[a]	--
118-D-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.039	--[a]	--
118-D-1_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	1.1	1.8	No
118-D-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.73	82	No
118-D-1_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.80	--[d]	--
118-D-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.80	--[d]	--
118-D-1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	7.25E+06	--[a]	--
118-D-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,467	2,157	Yes
118-D-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	71,721	3.40E+06	No
118-D-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	141	--[a]	--
118-D-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,207	68,054	No
118-D-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	72	235	No
118-D-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	10,857	--[a]	--
118-D-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	8,554	--[a]	--
118-D-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	16,263	2.51E+06	No
118-D-1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	2.16E+07	3.40E+06	Yes
118-D-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	4,866	--[a]	--
118-D-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	319,582	--[a]	--
118-D-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	13	--[a]	--
118-D-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	13,106	--[a]	--
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,382	2.00E+06[c]	No
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	13,056	2.00E+06[c]	No
118-D-1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	729	--[d]	--
118-D-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	55,100	--[a]	--
118-D-1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	42,151	--[a]	--
118-D-1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	0.059	--[a]	--
118-D-1_Shallow_5	Rad	Tritium	10028-17-8	pCi/g	0.030	18	No
118-D-1_Shallow_5	Rad	Uranium-234	13966-29-5	pCi/g	0.20	--[d]	--
118-D-1_Shallow_5	Rad	Uranium-238	U-238	pCi/g	0.19	--[d]	--
118-D-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.35E+06	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,600	35,209	No
118-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	64,100	5.56E+07	No
118-D-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	240	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	1.11E+06	No
118-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	89	3,836	No
118-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,700	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	4.09E+07	No
118-D-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	261	6,000[b]	No
118-D-1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	5.56E+07	No
118-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	293,000	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,200	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	2.00E+06[c]	No
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,000	2.00E+06[c]	No
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	5,090	--[d]	--
118-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,500	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,700	--[a]	--
118-D-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.26	--[a]	--
118-D-1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.14	4,194	No
118-D-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.050	294	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-D-1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.5	--[d]	--
118-D-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.7	--[d]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	8.15E+06	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,695	2,157	Yes
118-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	75,217	3.40E+06	No
118-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	193	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,317	68,054	No
118-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10,490	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	7,233	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	19,109	2.51E+06	No
118-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.04E+07	3.40E+06	Yes
118-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	3,614	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	284,458	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	6.0	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	310	159,123	No
118-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	12,366	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,800	2.00E+06[c]	No
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,400	2.00E+06[c]	No
118-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,320	--[d]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	38,513	--[a]	--
118-D-1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	0.37	--[a]	--
118-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	1.3	18	No
118-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.78	--[d]	--
118-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.78	--[d]	--
118-D-4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,133	4,842	No
118-D-4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	75,116	7.64E+06	No
118-D-4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	277	--[a]	--
118-D-4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,546	152,794	No
118-D-4_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	528	No
118-D-4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,931	--[a]	--
118-D-4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,560	--[a]	--
118-D-4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,932	5.63E+06	No
118-D-4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,760	--[a]	--
118-D-4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	352,925	--[a]	--
118-D-4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	--[a]	--
118-D-4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	500	357,260	No
118-D-4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	13,144	--[a]	--
118-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,797	--[d]	--
118-D-4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,686	--[a]	--
118-D-4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47,811	--[a]	--
118-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.033	--[a]	--
118-D-4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	--[d]	--
118-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.60	--[d]	--
118-D-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	2,400	--[a]	--
118-D-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,983	4,842	No
118-D-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,991	7.64E+06	No
118-D-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	231	--[a]	--
118-D-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,189	152,794	No
118-D-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	398	528	No
118-D-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,377	--[a]	--
118-D-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,104	--[a]	--
118-D-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,592	5.63E+06	No
118-D-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,908	--[a]	--
118-D-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	342,788	--[a]	--
118-D-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	66	--[a]	--
118-D-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	582	357,260	No
118-D-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,565	--[a]	--
118-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,042	--[d]	--
118-D-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,969	--[a]	--
118-D-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,118	--[a]	--
118-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.38	--[a]	--
118-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--[a]	--
118-D-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--[a]	--
118-D-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.31	--[a]	--
118-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	577	No
118-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	--[d]	--
118-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.69	--[d]	--
118-D-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	900	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	4,842	No
118-D-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	77,300	7.64E+06	No
118-D-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	152,794	No
118-D-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	528	No
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	48,100	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,000	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,500	5.63E+06	No
118-D-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[b]	No
118-D-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,700	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	399,000	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	58	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	357,260	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-D-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	27,300	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	5,460	2.00E+06[c]	No
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,500	2.00E+06[c]	No
118-D-4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,221	--[d]	--
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	92,400	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	59,600	--[a]	--
118-D-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	--[a]	--
118-D-4_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.45	--[a]	--
118-D-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	--[d]	--
118-D-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.75	--[d]	--
118-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	562	--[a]	--
118-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,763	8,215	No
118-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	56,468	1.30E+07	No
118-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	655	--[a]	--
118-D-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	77	895	No
118-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,598	--[a]	--
118-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,245	--[a]	--
118-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	12,493	9.54E+06	No
118-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	218	6,000[b]	No
118-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,716	--[a]	--
118-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	275,204	--[a]	--
118-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	41	--[a]	--
118-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	370	606,152	No
118-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,132	--[a]	--
118-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50,941	--[a]	--
118-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	40,220	--[a]	--
118-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	979	No
118-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	442	--[a]	--
118-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,660	8,215	No
118-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,858	1.30E+07	No
118-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	672	--[a]	--
118-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,500	259,241	No
118-D-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	76	895	No
118-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,937	--[a]	--
118-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,628	--[a]	--
118-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	12,558	9.54E+06	No
118-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	235	6,000[b]	No
118-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,611	--[a]	--
118-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	281,367	--[a]	--
118-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.6	--[a]	--
118-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	950	606,152	No
118-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,850	--[a]	--
118-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	--[a]	--
118-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	41,881	--[a]	--
118-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	20	--[a]	--
118-D-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	979	No
118-D-5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	440	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	8,110	No
118-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,000	1.28E+07	No
118-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	930	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	54	884	No
118-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,500	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,800	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,000	9.42E+06	No
118-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,400	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.1	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	320	598,373	No
118-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,000	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,000	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,000	--[a]	--
118-D-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.1	--[a]	--
118-D-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	113	--[a]	--
118-D-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.15	68	No
118-D-6:4_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	6.36E+06	--[a]	--
118-D-6:4_Deep	non-Rad	Antimony	7440-36-0	ug/kg	660	--[a]	--
118-D-6:4_Deep	non-Rad	Aroclor-1254	11097-69-1	ug/kg	4.9	--[a]	--
118-D-6:4_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	1,992	246,464	No
118-D-6:4_Deep	non-Rad	Barium	7440-39-3	ug/kg	67,113	3.89E+08	No
118-D-6:4_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	161	--[a]	--
118-D-6:4_Deep	non-Rad	Boron	7440-42-8	ug/kg	910	7.78E+06	No
118-D-6:4_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	570	26,854	No
118-D-6:4_Deep	non-Rad	Chromium	7440-47-3	ug/kg	29,454	--[a]	--
118-D-6:4_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	9,339	--[a]	--
118-D-6:4_Deep	non-Rad	Copper	7440-50-8	ug/kg	22,244	2.86E+08	No
118-D-6:4_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	841	6,000[b]	No
118-D-6:4_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	3.89E+08	No
118-D-6:4_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,622	--[a]	--
118-D-6:4_Deep	non-Rad	Manganese	7439-96-5	ug/kg	322,763	--[a]	--
118-D-6:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	169	--[a]	--
118-D-6:4_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	280	1.82E+07	No
118-D-6:4_Deep	non-Rad	Nickel	7440-02-0	ug/kg	10,843	--[a]	--
118-D-6:4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,393	--[d]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-D-6:4_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	72,616	--[a]	--
118-D-6:4_Deep	non-Rad	Zinc	7440-66-6	ug/kg	49,497	--[a]	--
118-D-6:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	29	--[a]	--
118-D-6:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.6	--[a]	--
118-D-6:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	--[a]	--
118-D-6:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.99	29,357	No
118-D-6:4_Deep	Rad	Tritium	10028-17-8	pCi/g	0.026	2,057	No
118-D-6:4_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.76	--[d]	--
118-D-6:4_Deep	Rad	Uranium-238	U-238	pCi/g	0.80	--[d]	--
118-D-6:4_Deep_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.67E+06	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	73	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,900	246,464	No
118-D-6:4_Deep_Focused	non-Rad	Barium	7440-39-3	ug/kg	91,400	3.89E+08	No
118-D-6:4_Deep_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	380	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,600	26,854	No
118-D-6:4_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	64,800	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	56,600	2.86E+08	No
118-D-6:4_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,640	6,000[b]	No
118-D-6:4_Deep_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.84E+07	3.89E+08	No
118-D-6:4_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,500	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Manganese	7439-96-5	ug/kg	356,000	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	380	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	290	1.82E+07	No
118-D-6:4_Deep_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,855	--[d]	--
118-D-6:4_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,800	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	148,000	--[a]	--
118-D-6:4_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.29	--[a]	--
118-D-6:4_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	85	--[a]	--
118-D-6:4_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.63	--[a]	--
118-D-6:4_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	17	--[a]	--
118-D-6:4_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.0	--[a]	--
118-D-6:4_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	37	--[a]	--
118-D-6:4_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.3	--[a]	--
118-D-6:4_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	29,357	No
118-D-6:4_Deep_Focused	Rad	Tritium	10028-17-8	pCi/g	0.056	2,057	No
118-D-6:4_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.2	--[d]	--
118-D-6:4_Deep_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.27	--[d]	--
118-D-6:4_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	0.92	--[d]	--
118-D-6:4_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.55E+06	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.9	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,091	246,464	No
118-D-6:4_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	62,434	3.89E+08	No
118-D-6:4_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	247	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,800	7.78E+06	No
118-D-6:4_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	95	26,854	No
118-D-6:4_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,251	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,140	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,162	2.86E+08	No
118-D-6:4_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	403	6,000[b]	No
118-D-6:4_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.62E+07	3.89E+08	No
118-D-6:4_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	13,267	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	323,193	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	31	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	312	1.82E+07	No
118-D-6:4_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,531	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	630	557,308	No
118-D-6:4_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,982	--[d]	--
118-D-6:4_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	77,927	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	49,762	--[a]	--
118-D-6:4_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.071	--[a]	--
118-D-6:4_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.034	2,057	No
118-D-6:4_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.66	--[d]	--
118-D-6:4_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.67	--[d]	--
118-D-6:4_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	21	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.8	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,057	246,464	No
118-D-6:4_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	67,362	3.89E+08	No
118-D-6:4_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	274	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	62	26,854	No
118-D-6:4_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,050	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,093	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	21,766	2.86E+08	No
118-D-6:4_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	559	6,000[b]	No
118-D-6:4_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.40E+07	3.89E+08	No
118-D-6:4_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5,072	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	328,312	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1,200	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	285	1.82E+07	No
118-D-6:4_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,571	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-D-6:4_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,344	--[c]	--
118-D-6:4_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	68,233	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	46,961	--[a]	--
118-D-6:4_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.9	--[a]	--
118-D-6:4_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	1.4	--[a]	--
118-D-6:4_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.21	--[a]	--
118-D-6:4_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	29,357	No
118-D-6:4_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0.073	2,057	No
118-D-6:4_Shallow_2	Rad	Uranium-234	13966-29-5	pCi/g	0.93	--[d]	--
118-D-6:4_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.1	--[d]	--
118-DR-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	--[a]	--
118-DR-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,230	11,203	No
118-DR-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56,291	1.77E+07	No
118-DR-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,045	--[a]	--
118-DR-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,226	353,511	No
118-DR-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	58	1,221	No
118-DR-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,080	--[a]	--
118-DR-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,720	--[a]	--
118-DR-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,464	1.30E+07	No
118-DR-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	248	6,000[b]	No
118-DR-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,014	--[a]	--
118-DR-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284,561	--[a]	--
118-DR-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.2	--[a]	--
118-DR-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,930	--[a]	--
118-DR-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,964	--[a]	--
118-DR-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	41,444	--[a]	--
118-DR-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.11	--[a]	--
118-DR-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.77	--[a]	--
118-DR-1_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	124	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.70E+06	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,500	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	8,215	No
118-DR-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,000	1.30E+07	No
118-DR-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	480	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	259,241	No
118-DR-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	79	895	No
118-DR-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,300	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,000	9.54E+06	No
118-DR-1_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	0.49	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,700	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.4	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54,000	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,000	--[a]	--
118-DR-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.050	--[a]	--
118-DR-1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	9.7	--[a]	--
118-DR-2:2_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	512	--[a]	--
118-DR-2:2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,713	--[a]	--
118-DR-2:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	6,000[b]	No
118-DR-2:2_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,500	--[a]	--
118-DR-2:2_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	--[a]	--
118-DR-2:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,166	--[c]	--
118-DR-2:2_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.12	--[a]	--
118-DR-2:2_Deep	Rad	Carbon-14	14762-75-5	pCi/g	9.4	--[a]	--
118-DR-2:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	12	--[a]	--
118-DR-2:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	4.3	--[a]	--
118-DR-2:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.8	--[a]	--
118-DR-2:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.94	--[a]	--
118-DR-2:2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	47	--[a]	--
118-DR-2:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.2	--[a]	--
118-DR-2:2_Deep	Rad	Technetium-99	14133-76-7	pCi/g	1.1	3.3	No
118-DR-2:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.46	--[d]	--
118-DR-2:2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.079	--[d]	--
118-DR-2:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.39	--[d]	--
118-DR-2:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	34	--[a]	--
118-DR-2:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	22,406	No
118-DR-2:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,900	3.54E+07	No
118-DR-2:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,700	--[a]	--
118-DR-2:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	699	6,000[b]	No
118-DR-2:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,112	--[a]	--
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164	--[a]	--
118-DR-2:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,474	--[c]	--
118-DR-2:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.51	--[a]	--
118-DR-2:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	--[a]	--
118-DR-2:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.45	--[a]	--
118-DR-2:2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.8	--[a]	--
118-DR-2:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.18	--[a]	--
118-DR-2:2_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	2.4	4.1	No
118-DR-2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.88	2,669	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-DR-2:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	--[d]	--
118-DR-2:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[d]	--
120-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	720	--[a]	--
120-D-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,310	8,802	No
120-D-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	73,265	1.39E+07	No
120-D-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	251	--[a]	--
120-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,704	277,758	No
120-D-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	117	959	No
120-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,075	--[a]	--
120-D-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,385	--[a]	--
120-D-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,512	1.02E+07	No
120-D-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	6,000[b]	No
120-D-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,162	--[a]	--
120-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	339,488	--[a]	--
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	111	--[a]	--
120-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	605	649,448	No
120-D-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,826	--[a]	--
120-D-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	9,910	81,019	No
120-D-2_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	554	18,004	No
120-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	77,181	--[a]	--
120-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,904	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	8,802	No
120-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	61,900	1.39E+07	No
120-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	310	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	277,758	No
120-D-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160	959	No
120-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	4,500	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,300	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	1.02E+07	No
120-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,700	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	316,000	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	560	649,448	No
120-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,800	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	80,200	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,800	--[a]	--
122-DR-1:2_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	5,030	No
122-DR-1:2_Deep	non-Rad	Barium	7440-39-3	ug/kg	58,500	7.94E+06	No
122-DR-1:2_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--[a]	--
122-DR-1:2_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	150	--[a]	--
122-DR-1:2_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	210	548	No
122-DR-1:2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,700	--[a]	--
122-DR-1:2_Deep	non-Rad	Chrysene	218-01-9	ug/kg	22	--[a]	--
122-DR-1:2_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	49	--[a]	--
122-DR-1:2_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,200	--[a]	--
122-DR-1:2_Deep	non-Rad	Lithium	7439-93-2	ug/kg	10,000	--[a]	--
122-DR-1:2_Deep	non-Rad	Pyrene	129-00-0	ug/kg	51	--[a]	--
122-DR-1:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,926	--[d]	--
122-DR-1:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.049	--[a]	--
122-DR-1:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	--[d]	--
122-DR-1:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.65	--[d]	--
122-DR-1:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	5,030	No
122-DR-1:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,900	7.94E+06	No
122-DR-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	66	--[a]	--
122-DR-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--[a]	--
122-DR-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	36	--[a]	--
122-DR-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--[a]	--
122-DR-1:2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[a]	--
122-DR-1:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	190	548	No
122-DR-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,900	--[a]	--
122-DR-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	55	--[a]	--
122-DR-1:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	19	42,031	No
122-DR-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	110	--[a]	--
122-DR-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,400	--[a]	--
122-DR-1:2_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	12,500	--[a]	--
122-DR-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	100	--[a]	--
122-DR-1:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,941	--[d]	--
122-DR-1:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.063	--[a]	--
122-DR-1:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	--[d]	--
122-DR-1:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	--[d]	--
126-D-2_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.2	--[a]	--
126-D-2_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--[a]	--
126-D-2_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	--[a]	--
126-D-2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,644	1,494	Yes
126-D-2_Overburden	non-Rad	Barium	7440-39-3	ug/kg	81,680	2.36E+06	No
126-D-2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.8	--[a]	--
126-D-2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--[a]	--
126-D-2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	10	--[a]	--
126-D-2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.0	--[a]	--
126-D-2_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	802	--[a]	--
126-D-2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,077	47,135	No
126-D-2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,899	--[c]	--
126-D-2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	16	--[a]	--
126-D-2_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,810	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
126-D-2_Overburden	non-Rad	Copper	7440-50-8	ug/kg	12,860	1.74E+06	No
126-D-2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	16	--[a]	--
126-D-2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,586	--[a]	--
126-D-2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,316	--[a]	--
126-D-2_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	9.4	--[a]	--
126-D-2_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	334	110,209	No
126-D-2_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,525	--[a]	--
126-D-2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	27	--[a]	--
126-D-2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	61,720	--[a]	--
126-D-2_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	41,994	--[a]	--
126-D-2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	7.2	--[a]	--
126-D-2_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	95	--[a]	--
126-D-2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.57	--[a]	--
126-D-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	13	2.36E+06	No
126-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	577	--[a]	--
126-D-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.3	--[a]	--
126-D-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,826	1,494	Yes
126-D-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	86,325	2.36E+06	No
126-D-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	14	--[a]	--
126-D-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--[a]	--
126-D-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	23	--[a]	--
126-D-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--[a]	--
126-D-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	761	--[a]	--
126-D-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	188	--[a]	--
126-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,042	47,135	No
126-D-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	43	163	No
126-D-2_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.45	--[a]	--
126-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,872	--[a]	--
126-D-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	38	--[a]	--
126-D-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,752	--[a]	--
126-D-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,151	1.74E+06	No
126-D-2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--[a]	--
126-D-2_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	0.42	48	No
126-D-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	58	--[a]	--
126-D-2_Shallow	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	7.8	--[a]	--
126-D-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.0	--[a]	--
126-D-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,229	--[a]	--
126-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	354,940	--[a]	--
126-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	17	--[a]	--
126-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	317	110,209	No
126-D-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	14	960	No
126-D-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,613	--[a]	--
126-D-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	37	--[a]	--
126-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	78,289	--[a]	--
126-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,412	--[a]	--
126-D-2_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	92	391	No
126-D-2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	--[a]	--
126-D-2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	75	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	240	11,452	No
126-D-2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	9.2	2.36E+06	No
126-D-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	620	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.0	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,000	1,494	Yes
126-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	120,000	2.36E+06	No
126-D-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	35	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	35	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	630	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,280	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	7,900	47,135	No
126-D-2_Shallow_Focused	non-Rad	Chlordane	57-74-9	ug/kg	0.31	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	23	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,000	1.74E+06	No
126-D-2_Shallow_Focused	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.39	972	No
126-D-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	221	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	63	12,220	No
126-D-2_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	5.8	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	72,000	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	23	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	0.86	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	330	110,209	No
126-D-2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	105	960	No
126-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	64	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	69,000	2.00E+06[c]	No
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	160,000	2.00E+06[c]	No
126-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,000	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
126-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	50,000	--[a]	--
128-D-2_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.51	--[a]	--
128-D-2_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	9.2	1,685	No
128-D-2_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.20E+06	--[a]	--
128-D-2_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	36	--[a]	--
128-D-2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,904	1,134	Yes
128-D-2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	82,983	1.79E+06	No
128-D-2_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	77	--[a]	--
128-D-2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--[a]	--
128-D-2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	205	--[a]	--
128-D-2_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	81	--[a]	--
128-D-2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,817	35,792	No
128-D-2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	59	124	No
128-D-2_Shallow_1	non-Rad	Chloroform	67-66-3	ug/kg	0.87	0.59	Yes
128-D-2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,003	--[a]	--
128-D-2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,525	--[a]	--
128-D-2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,094	1.32E+06	No
128-D-2_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	400	6,616	No
128-D-2_Shallow_1	non-Rad	Ethylbenzene	100-41-4	ug/kg	0.64	3.8	No
128-D-2_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	1.79E+06	Yes
128-D-2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,793	--[a]	--
128-D-2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	341,770	--[a]	--
128-D-2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	41	--[a]	--
128-D-2_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.1	1.3	Yes
128-D-2_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	310	83,688	No
128-D-2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,887	--[a]	--
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,100	924	Yes
128-D-2_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	1.4	461	No
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,691	2.00E+06[c]	No
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	16,599	2.00E+06[c]	No
128-D-2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	53,369	--[a]	--
128-D-2_Shallow_1	non-Rad	Xylenes (total)	1330-20-7	ug/kg	2.7	1,682	No
128-D-2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	45,366	--[a]	--
128-D-2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.24	--[a]	--
128-D-2_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	6,101	No
128-D-2_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	5.67E+06	--[a]	--
128-D-2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,318	4,108	No
128-D-2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	62,231	6.48E+06	No
128-D-2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	147	--[a]	--
128-D-2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,200	129,621	No
128-D-2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	132	448	No
128-D-2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,153	--[a]	--
128-D-2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,447	--[a]	--
128-D-2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,949	4.77E+06	No
128-D-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	6,000[b]	No
128-D-2_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.86E+07	6.48E+06	Yes
128-D-2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,494	--[a]	--
128-D-2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	277,702	--[a]	--
128-D-2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	18	--[a]	--
128-D-2_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	10	4.8	Yes
128-D-2_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	263	303,076	No
128-D-2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,947	--[a]	--
128-D-2_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	190	9,288	No
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,500	2.00E+06[c]	No
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,300	2.00E+06[c]	No
128-D-2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	--[a]	--
128-D-2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36,765	--[a]	--
128-D-2_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.24	489	No
130-D-1_Shallow	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	0.88	70	No
130-D-1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	188,583	No
130-D-1_Shallow	non-Rad	Acetone	67-64-1	ug/kg	13	36,536	No
130-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.59E+06	--[a]	--
130-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	24	--[a]	--
130-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,031	24,597	No
130-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	72,121	3.88E+07	No
130-D-1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--[a]	--
130-D-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	16	--[a]	--
130-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	69	--[a]	--
130-D-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--[a]	--
130-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	51	--[a]	--
130-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,642	776,171	No
130-D-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	81	2,680	No
130-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,452	--[a]	--
130-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	43	--[a]	--
130-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,789	--[a]	--
130-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,835	2.86E+07	No
130-D-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	63	--[a]	--
130-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	3.88E+07	No
130-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,060	--[a]	--
130-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	306,041	--[a]	--
130-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
130-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	29	No
130-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	273	1.81E+06	No
130-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,744	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
130-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	56	--[a]	--
130-D-1_Shallow	non-Rad	Toluene	108-88-3	ug/kg	2.7	9,989	No
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,333	2.00E+06[c]	No
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	9,898	2.00E+06[c]	No
130-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	51,859	--[a]	--
130-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,218	--[b]	--
130-D-1_Shallow_Focused	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.9	70	No
130-D-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.68E+06	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,600	24,597	No
130-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,600	3.88E+07	No
130-D-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	776,171	No
130-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	73	2,680	No
130-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,200	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,400	--[c]	--
130-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,800	2.86E+07	No
130-D-1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.50E+07	3.88E+07	No
130-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,200	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	305,000	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.2	29	No
130-D-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	280	1.81E+06	No
130-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,100	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	64,000	2.00E+06[c]	No
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	110,000	2.00E+06[c]	No
130-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	82,200	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,900	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.0	70	No
130-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	1.09E+07	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,871	24,597	No
130-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	102,565	3.88E+07	No
130-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	142	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,900	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2,148	776,171	No
130-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	128	2,680	No
130-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	13,222	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	29	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	8,624	--[c]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	18,874	2.86E+07	No
130-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	45	143,480	No
130-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	3.88E+07	No
130-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	7,527	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	379,422	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	10	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	29	No
130-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	300	1.81E+06	No
130-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	14,522	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,162	2.00E+06[c]	No
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	18,492	2.00E+06[c]	No
130-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43,839	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	45,473	--[c]	--
132-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.09E+06	--[a]	--
132-D-1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	6.3	--[a]	--
132-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	230	--[a]	--
132-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,758	8,215	No
132-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,595	1.30E+07	No
132-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.0	--[a]	--
132-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--[a]	--
132-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,150	259,241	No
132-D-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	62	895	No
132-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,667	--[a]	--
132-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.9	--[a]	--
132-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,535	--[a]	--
132-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,707	9.54E+06	No
132-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	164	6,000[b]	No
132-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.51E+07	1.30E+07	Yes
132-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,177	--[a]	--
132-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	314,188	--[a]	--
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1,000	--[a]	--
132-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	580	606,152	No
132-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,451	--[b]	--
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	860	6,693	No
132-D-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,092	--[d]	--
132-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,877	--[a]	--
132-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,502	--[a]	--
132-D-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--[e]	--
132-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.14	--[e]	--
132-D-1_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.84	69	No
132-D-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.23	--[e]	--
132-D-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.22	--[e]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.07E+06	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	39	9.15E+06	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	35	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	18	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,513	5,799	No
132-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	65,825	9.15E+06	No
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	225	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	174	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	161	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	59	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	49	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,225	182,994	No
132-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	91	632	No
132-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,496	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	193	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	9,154	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	16,081	6.74E+06	No
132-D-1_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	54	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	44	33,828	No
132-D-1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	402	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	68	47,441	No
132-D-1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	6,000[b]	No
132-D-1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	9.15E+06	Yes
132-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	6,740	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	299,873	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	680	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	240	427,872	No
132-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,761	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	439	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	481	--[d]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	57,749	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	48,544	--[a]	--
132-D-1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.59	--[a]	--
132-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	0.065	48	No
132-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.21	--[d]	--
132-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.19	--[d]	--
1607-D1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.99E+06	--[a]	--
1607-D1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,396	5,030	No
1607-D1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64,671	7.94E+06	No
1607-D1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	228	--[a]	--
1607-D1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--[a]	--
1607-D1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,325	158,719	No
1607-D1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	79	548	No
1607-D1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,828	--[a]	--
1607-D1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	5,717	--[a]	--
1607-D1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,881	5.84E+06	No
1607-D1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.64E+07	7.94E+06	Yes
1607-D1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,020	--[a]	--
1607-D1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	273,291	--[a]	--
1607-D1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	6.7	--[a]	--
1607-D1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,264	--[a]	--
1607-D1_Shallow_1	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	1,367	10,288	No
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,650	10,288	No
1607-D1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	38,625	--[a]	--
1607-D1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	35,700	--[a]	--
1607-D1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.64E+06	--[a]	--
1607-D1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,837	5,030	No
1607-D1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	67,938	7.94E+06	No
1607-D1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	245	--[a]	--
1607-D1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,248	158,719	No
1607-D1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	78	548	No
1607-D1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	13,336	--[a]	--
1607-D1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,679	--[a]	--
1607-D1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,123	5.84E+06	No
1607-D1_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	990	--[a]	--
1607-D1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.63E+07	7.94E+06	Yes
1607-D1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,186	--[a]	--
1607-D1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	282,971	--[a]	--
1607-D1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	8.0	--[a]	--
1607-D1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,792	--[a]	--
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	940	10,288	No
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,444	10,288	No
1607-D1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	37,046	--[a]	--
1607-D1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	35,077	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.32E+06	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,400	5,030	No
1607-D1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	84,000	7.94E+06	No
1607-D1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	240	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	158,719	No
1607-D1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	86	548	No
1607-D1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,400	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
1607-D1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,300	5.84E+06	No
1607-D1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.53E+07	7.94E+06	Yes
1607-D1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,000	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273,000	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	18	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,900	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,500	10,288	No
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,600	10,288	No
1607-D1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34,500	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	34,200	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	7.18E+06	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,159	5,030	No
1607-D1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	61,878	7.94E+06	No
1607-D1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	224	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	77	548	No
1607-D1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	11,971	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,119	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	13,304	5.84E+06	No
1607-D1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	7.94E+06	Yes
1607-D1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	4,179	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	268,018	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	15	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	260	371,113	No
1607-D1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	11,512	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,900	10,288	No
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,226	10,288	No
1607-D1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	39,210	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	34,383	--[a]	--
1607-D2-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,100	5,030	No
1607-D2-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,400	7.94E+06	No
1607-D2-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,900	--[a]	--
1607-D2-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1,900	--[a]	--
1607-D2-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,268	--[d]	--
1607-D2-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.050	--[d]	--
1607-D2-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	--[d]	--
1607-D2-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.38	--[d]	--
1607-D2-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.67	--[d]	--
1607-D2-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.046	--[d]	--
1607-D2-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.76	--[d]	--
1607-D2-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,211	--[a]	--
1607-D2-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	447	--[a]	--
1607-D2-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	157	--[a]	--
1607-D2-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,481	246,464	No
1607-D2-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	249,126	3.89E+08	No
1607-D2-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	343	--[a]	--
1607-D2-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,842	7.78E+06	No
1607-D2-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	378	26,854	No
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,771	--[a]	--
1607-D2-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,840	--[a]	--
1607-D2-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	25,777	2.86E+08	No
1607-D2-2_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,700	--[a]	--
1607-D2-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	6,000[b]	No
1607-D2-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,699	--[a]	--
1607-D2-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	344,089	--[a]	--
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	484	--[a]	--
1607-D2-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	643	1.82E+07	No
1607-D2-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13,309	--[a]	--
1607-D2-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	204,415	2.27E+06	No
1607-D2-2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	55,960	504,120	No
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	11,800	557,308	No
1607-D2-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,789	--[d]	--
1607-D2-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	68,020	--[a]	--
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	91,971	--[a]	--
1607-D2-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.35	--[d]	--
1607-D2-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.86	--[d]	--
1607-D2-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.94	--[d]	--
1607-D2-3_Overburden	non-Rad	Barium	7440-39-3	ug/kg	55,845	3.89E+08	No
1607-D2-3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,597	--[a]	--
1607-D2-3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	5,700	--[a]	--
1607-D2-3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.17	--[d]	--
1607-D2-3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.075	--[d]	--
1607-D2-3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.60	--[d]	--
1607-D2-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88,075	3.89E+08	No
1607-D2-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	25	--[a]	--
1607-D2-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,576	--[a]	--
1607-D2-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,939	--[a]	--
1607-D2-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	31	--[a]	--
1607-D2-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.050	--[d]	--
1607-D2-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--[d]	--
1607-D2-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,300	3.89E+08	No
1607-D2-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,100	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit, Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
1607-D2-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,000	--[a]	--
1607-D2-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,340	--[d]	--
1607-D2-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.037	--[a]	--
1607-D2-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.53	--[d]	--
1607-D2-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.45	--[d]	--
1607-D4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	202,020	No
1607-D4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	41,900	3.19E+08	No
1607-D4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	900	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	100	--[d]	--
1607-D4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	6.37E+06	No
1607-D4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	350	22,011	No
1607-D4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,400	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,700	2.35E+08	No
1607-D4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	60	1.69E+06	No
1607-D4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,600	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	269,000	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	280	1.49E+07	No
1607-D4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,100	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	2,460	1.86E+06	No
1607-D4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	715	413,213	No
1607-D4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1.6	--[d]	--
1607-D4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54,500	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	38,100	--[a]	--
1607-D5_Shallow	non-Rad	2,4-Dinitrophenol	51-28-5	ug/kg	370	1,322	No
1607-D5_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	34	52,912	No
1607-D5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--[a]	--
1607-D5_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	4.0	--[a]	--
1607-D5_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.80	--[a]	--
1607-D5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.20E+07	--[a]	--
1607-D5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	163	3.19E+08	No
1607-D5_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	12	--[a]	--
1607-D5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,558	202,020	No
1607-D5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	775,391	3.19E+08	No
1607-D5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,962	--[a]	--
1607-D5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	405	--[a]	--
1607-D5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	449	--[a]	--
1607-D5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	253	--[a]	--
1607-D5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	493	--[a]	--
1607-D5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	69,503	6.37E+06	No
1607-D5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	97	22,011	No
1607-D5_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	48	9,822	No
1607-D5_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.2	--[a]	--
1607-D5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,673	--[a]	--
1607-D5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	779	--[a]	--
1607-D5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,198	--[a]	--
1607-D5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	31,565	2.35E+08	No
1607-D5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	99	--[a]	--
1607-D5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,925	--[a]	--
1607-D5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	125	1.65E+06	No
1607-D5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	160	--[a]	--
1607-D5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.40E+07	3.19E+08	No
1607-D5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	106,537	--[a]	--
1607-D5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330,505	--[a]	--
1607-D5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	25	--[a]	--
1607-D5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,201	1.49E+07	No
1607-D5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	14,373	--[a]	--
1607-D5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,855	413,213	No
1607-D5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,528	413,213	No
1607-D5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2,647	--[a]	--
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	21,904	2.00E+06[c]	No
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	37,994	2.00E+06[c]	No
1607-D5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,779	--[a]	--
1607-D5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,033	--[a]	--
600-30_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.55E+06	--[a]	--
600-30_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,263	1,232	Yes
600-30_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	89,130	1.95E+06	No
600-30_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	292	--[a]	--
600-30_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	408	--[a]	--
600-30_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,431	38,886	No
600-30_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	109	134	No
600-30_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,154	--[a]	--
600-30_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,887	--[a]	--
600-30_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,226	1.43E+06	No
600-30_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	230	6,000[c]	No
600-30_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	1.95E+06	Yes
600-30_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,711	--[a]	--
600-30_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	360,369	--[a]	--
600-30_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	386	90,923	No
600-30_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,429	--[a]	--
600-30_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	6,410	2.00E+06[c]	No
600-30_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	49,219	--[a]	--
600-30_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	43,816	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
600-30_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.79E+06	--[a]	--
600-30_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,242	4,929	No
600-30_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	85,373	7.78E+06	No
600-30_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	105	--[a]	--
600-30_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	101	--[a]	--
600-30_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,525	155,545	No
600-30_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	103	537	No
600-30_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,014	--[a]	--
600-30_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,145	--[a]	--
600-30_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	17,330	5.73E+06	No
600-30_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	294	6,000[b]	No
600-30_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.24E+07	7.78E+06	Yes
600-30_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,021	--[a]	--
600-30_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	351,748	--[a]	--
600-30_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	6.5	--[c]	--
600-30_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	390	363,691	No
600-30_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	12,530	--[a]	--
600-30_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	170	11,146	No
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	820	2.00E+06[c]	No
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,275	2.00E+06[c]	No
600-30_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	57,064	--[a]	--
600-30_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	43,114	--[a]	--
600-30_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	6.93E+06	--[a]	--
600-30_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	430	--[a]	--
600-30_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,866	20,539	No
600-30_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	64,907	3.24E+07	No
600-30_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	66	--[a]	--
600-30_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--[a]	--
600-30_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,700	648,103	No
600-30_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	67	2,238	No
600-30_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	7,708	--[a]	--
600-30_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	10,660	--[a]	--
600-30_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	18,099	2.39E+07	No
600-30_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	210	6,000[b]	No
600-30_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	3.24E+07	No
600-30_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	7,862	--[a]	--
600-30_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	346,688	--[a]	--
600-30_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	6.4	--[c]	--
600-30_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	243	1.52E+06	No
600-30_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,270	--[a]	--
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,643	2.00E+06[c]	No
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,600	2.00E+06[c]	No
600-30_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	67,222	--[a]	--
600-30_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,856	--[a]	--
600-30_Shallow_Focused	non-Rad	Aldrin	309-00-2	ug/kg	1.7	--[c]	--
600-30_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.39E+06	--[a]	--
600-30_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	349	--[a]	--
600-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,590	3,286	Yes
600-30_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99,100	5.19E+06	No
600-30_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	319	--[a]	--
600-30_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,460	103,696	No
600-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	134	358	No
600-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	--[a]	--
600-30_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,300	--[a]	--
600-30_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,300	3.82E+06	No
600-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	270	6,000[b]	No
600-30_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.34E+07	5.19E+06	Yes
600-30_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,800	--[a]	--
600-30_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	382,000	--[a]	--
600-30_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	396	242,461	No
600-30_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,700	--[a]	--
600-30_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	52,500	2.00E+06[c]	No
600-30_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,200	--[a]	--
600-30_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,600	--[a]	--
628-3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	15,271	No
628-3_Shallow	non-Rad	Aldrin	309-00-2	ug/kg	1.5	--[a]	--
628-3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.13E+06	--[a]	--
628-3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3,150	--[a]	--
628-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,521	1,992	Yes
628-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57,199	3.14E+06	No
628-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[a]	--
628-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.7	--[a]	--
628-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.3	--[a]	--
628-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.1	--[a]	--
628-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	193	--[a]	--
628-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,771	62,851	No
628-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	136	217	No
628-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,406	--[a]	--
628-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.5	--[a]	--
628-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,637	--[a]	--
628-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,747	2.31E+06	No
628-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--[a]	--
628-3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.6	--[a]	--

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
628-3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.14E+06	Yes
628-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,972	--[a]	--
628-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284,235	--[a]	--
628-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	165	--[a]	--
628-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	372	146,958	No
628-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,674	--[a]	--
628-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	3.6	--[a]	--
628-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,961	2.00E+06[c]	No
628-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,113	--[a]	--
628-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,721	--[a]	--
628-3_Staging Pile Area_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.4	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.4	15,271	No
628-3_Staging Pile Area_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Anthracene	120-12-7	ug/kg	8.6	3.14E+06	No
628-3_Staging Pile Area_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	13	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.1	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,870	1,992	Yes
628-3_Staging Pile Area_2	non-Rad	Barium	7440-39-3	ug/kg	78,503	3.14E+06	No
628-3_Staging Pile Area_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.9	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.3	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Beryllium	7440-41-7	ug/kg	255	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Boron	7440-42-8	ug/kg	2,112	62,851	No
628-3_Staging Pile Area_2	non-Rad	Cadmium	7440-43-9	ug/kg	163	217	No
628-3_Staging Pile Area_2	non-Rad	Chromium	7440-47-3	ug/kg	12,445	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Chrysene	218-01-9	ug/kg	6.7	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,062	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Copper	7440-50-8	ug/kg	15,226	2.31E+06	No
628-3_Staging Pile Area_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.0	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Fluoranthene	206-44-0	ug/kg	35	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Iron	7439-89-6	ug/kg	2.17E+07	3.14E+06	Yes
628-3_Staging Pile Area_2	non-Rad	Lead	7439-92-1	ug/kg	7,650	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Manganese	7439-96-5	ug/kg	323,863	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	ug/kg	113	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Molybdenum	7439-98-7	ug/kg	421	146,958	No
628-3_Staging Pile Area_2	non-Rad	Nickel	7440-02-0	ug/kg	10,261	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Pyrene	129-00-0	ug/kg	11	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,200	2.00E+06[c]	No
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,900	2.00E+06[c]	No
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,486	2.00E+06[c]	No
628-3_Staging Pile Area_2	non-Rad	Vanadium	7440-62-2	ug/kg	55,454	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Zinc	7440-66-6	ug/kg	48,319	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Aluminum	7429-90-5	ug/kg	6.90E+06	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,494	1,992	Yes
628-3_Staging Pile Area_3	non-Rad	Barium	7440-39-3	ug/kg	74,014	3.14E+06	No
628-3_Staging Pile Area_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.8	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.6	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Beryllium	7440-41-7	ug/kg	234	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Boron	7440-42-8	ug/kg	2,241	62,851	No
628-3_Staging Pile Area_3	non-Rad	Cadmium	7440-43-9	ug/kg	166	217	No
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	ug/kg	41,154	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Chrysene	218-01-9	ug/kg	1.9	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,463	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Copper	7440-50-8	ug/kg	18,417	2.31E+06	No
628-3_Staging Pile Area_3	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.14E+06	Yes
628-3_Staging Pile Area_3	non-Rad	Lead	7439-92-1	ug/kg	13,526	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Manganese	7439-96-5	ug/kg	328,755	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Mercury	7439-97-6	ug/kg	30	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Molybdenum	7439-98-7	ug/kg	474	146,958	No
628-3_Staging Pile Area_3	non-Rad	Nickel	7440-02-0	ug/kg	9,872	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Pyrene	129-00-0	ug/kg	3.0	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,203	2.00E+06[c]	No
628-3_Staging Pile Area_3	non-Rad	Vanadium	7440-62-2	ug/kg	58,456	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Zinc	7440-66-6	ug/kg	54,972	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.5	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.93E+06	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	1,992	Yes
628-3_Staging Pile Area_Focused	non-Rad	Barium	7440-39-3	ug/kg	109,000	3.14E+06	No
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.4	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.8	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.3	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	298	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,500	62,851	No
628-3_Staging Pile Area_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	189	217	No

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
628-3_Staging Pile Area_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,000	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Chrysene	218-01-9	ug/kg	3.4	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,420	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,700	2.31E+06	No
628-3_Staging Pile Area_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	26	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.9	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.16E+07	3.14E+06	Yes
628-3_Staging Pile Area_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,500	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Manganese	7439-96-5	ug/kg	363,000	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	353	146,958	No
628-3_Staging Pile Area_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.5	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	20,300	2.00E+06[c]	No
628-3_Staging Pile Area_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,400	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,400	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	485	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	4.3	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,640	15,599	No
UPR-100-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	78,785	2.46E+07	No
UPR-100-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	178	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,085	492,230	No
UPR-100-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,103	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,238	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,771	1.81E+07	No
UPR-100-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	6,000[b]	No
UPR-100-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,643	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	397,997	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	389	1.15E+06	No
UPR-100-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	8,772	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	236	12,708	No
UPR-100-D-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	190	35,273	No
UPR-100-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,866	--[d]	--
UPR-100-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,616	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,265	--[a]	--
UPR-100-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.066	--[a]	--
UPR-100-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	1,858	No
UPR-100-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[d]	--
UPR-100-D-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.039	--[d]	--
UPR-100-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.54	--[d]	--
UPR-100-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	370	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,612	15,599	No
UPR-100-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	64,474	2.46E+07	No
UPR-100-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	194	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,067	492,230	No
UPR-100-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,861	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,229	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,439	1.81E+07	No
UPR-100-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[b]	No
UPR-100-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,748	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,220	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	332	1.15E+06	No
UPR-100-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,158	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	170	35,273	No
UPR-100-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,579	--[d]	--
UPR-100-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,393	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,676	--[a]	--
UPR-100-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.074	--[a]	--
UPR-100-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.49	--[d]	--
UPR-100-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	--[d]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,110	15,599	No
UPR-100-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	50,200	2.46E+07	No
UPR-100-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	146	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	744	492,230	No
UPR-100-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,560	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,240	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,800	1.81E+07	No
UPR-100-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,200	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	254,000	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	330	1.15E+06	No
UPR-100-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,151	--[d]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	60,100	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,600	--[a]	--
UPR-100-D-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.41	--[d]	--
UPR-100-D-5_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.030	--[d]	--
UPR-100-D-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.38	--[d]	--

Notes:

a. The calculated soil screening level for the analyte is considered non-representative because breakthrough was not simulated to occur within 1000 years in more than one of the set of representative stratigraphic columns, where breakthrough is defined as a mass concentration exceeding 0.0001 µg/L for nonradionuclides or an activity concentration exceeding

b. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

Table 7-1. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?

c. The soil screening level for Total Petroleum Hydrocarbons is a default screening level obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."
d. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC. However, uranium has been previously identified in association with the 183-H Solar Evaporation Basin as an indicator parameter for that RCRA site. Uranium has been detected above the RCRA permit levels and was detected above the DWS in 2012 in one location. While the analyte does not constitute a groundwater risk, it is being carried forward into the FS as a COC for the area local to 183-H only, based on detections in groundwater.
-- = Not applicable or no value.

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.92E+06	--[a]	--
100-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,027	3.89E+08	No
100-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,985	--[b]	--
100-D-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	202	--[b]	--
100-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,100	--[b]	--
100-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,135	--[a]	--
100-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,617	--[b]	--
100-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,107	4.03E+06	No
100-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	417	6,000[c]	No
100-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.34E+07	3.89E+08	No
100-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,961	--[a]	--
100-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,021	--[b]	--
100-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.3	--[a]	--
100-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.4	--[b]	--
100-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	350	--[b]	--
100-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,343	--[a]	--
100-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	17	--[b]	--
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,187	--[b]	--
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	43,478	--[b]	--
100-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,051	--[b]	--
100-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,845	--[a]	--
100-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.079	--[a]	--
100-D-13_Shallow_Focused	non-Rad	2-(2-methyl-4-chlorophenoxy) propionic acid	93-65-2	ug/kg	2,000	--[b]	--
100-D-13_Shallow_Focused	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	ug/kg	11	--[b]	--
100-D-13_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.66	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.10E+06	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	6.95E+06	No
100-D-13_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,600	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	1,000	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,900	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	66	24	Yes
100-D-13_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,900	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,000	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	71,907	No
100-D-13_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	64	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	ug/kg	3.0	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,400	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.91E+07	6.95E+06	Yes
100-D-13_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,300	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	14	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,000	--[a]	--
100-D-13_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	27,500	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,700	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Phenol	108-95-2	ug/kg	22	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	359	Yes
100-D-13_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,600	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1,500	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,400	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	122,000	--[a]	--
100-D-13_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
100-D-13_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.097	--[b]	--
100-D-13_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.18	--[b]	--
100-D-15_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.32E+06	--[a]	--
100-D-15_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.4	--[a]	--
100-D-15_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--[a]	--
100-D-15_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,199	4.05E+06	No
100-D-15_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64,053	--[b]	--
100-D-15_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	191	--[b]	--
100-D-15_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,510	--[b]	--
100-D-15_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	62	14	Yes
100-D-15_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,801	--[a]	--
100-D-15_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,698	--[b]	--
100-D-15_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,273	41,946	No
100-D-15_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	130	6,000[c]	No
100-D-15_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	4.05E+06	Yes
100-D-15_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,546	--[a]	--
100-D-15_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	277,857	--[b]	--
100-D-15_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	29	--[a]	--
100-D-15_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	380	--[b]	--
100-D-15_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,447	--[a]	--
100-D-15_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,272	--[b]	--
100-D-15_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	--[b]	--
100-D-15_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	39,833	--[a]	--
100-D-15_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	3.6	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-15_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.7	--[b]	--
100-D-15_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.78E+06	--[a]	--
100-D-15_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,025	6.71E+06	No
100-D-15_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	84,309	--[b]	--
100-D-15_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	270	--[b]	--
100-D-15_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	427	--[b]	--
100-D-15_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,652	--[b]	--
100-D-15_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	965	23	Yes
100-D-15_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	14,486	--[a]	--
100-D-15_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,880	--[b]	--
100-D-15_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	20,641	69,427	No
100-D-15_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	173	6,000[c]	No
100-D-15_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.28E+07	6.71E+06	Yes
100-D-15_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	7,175	--[a]	--
100-D-15_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	326,395	--[b]	--
100-D-15_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	25	--[a]	--
100-D-15_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	553	--[b]	--
100-D-15_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	13,099	--[a]	--
100-D-15_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	477	346	Yes
100-D-15_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	32,560	--[b]	--
100-D-15_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,475	--[b]	--
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	92,810	--[a]	--
100-D-18_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2,600	6,000[c]	No
100-D-18_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,920	--[b]	--
100-D-18_Deep	Rad	Cesium-137	10045-97-3	pCi/g	18	--[a]	--
100-D-18_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	--[a]	--
100-D-18_Deep	Rad	Europium-152	14683-23-9	pCi/g	9.8	--[a]	--
100-D-18_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	--[a]	--
100-D-18_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	--[a]	--
100-D-18_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	1,957	No
100-D-18_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[b]	--
100-D-18_Deep	Rad	Uranium-238	U-238	pCi/g	0.65	--[b]	--
100-D-19_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1,580	--[a]	--
100-D-19_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.37	--[a]	--
100-D-19_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	817	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.41E+06	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	3.89E+08	No
100-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	65,000	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	190	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,300	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,300	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,000	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,500	4.03E+06	No
100-D-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	410	6,000[c]	No
100-D-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	3.89E+08	No
100-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,900	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Lithium	7439-93-2	ug/kg	4,700	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	294,000	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	920	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	--[a]	--
100-D-2_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	24,600	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2,400	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	50,100	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	51,300	--[a]	--
100-D-20_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,563	--[b]	--
100-D-20_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.21	--[a]	--
100-D-20_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.5	--[a]	--
100-D-20_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.072	--[a]	--
100-D-20_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.55	--[a]	--
100-D-20_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.041	--[a]	--
100-D-20_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.77	--[b]	--
100-D-20_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.036	--[b]	--
100-D-20_Shallow	Rad	Uranium-238	U-238	pCi/g	0.86	--[b]	--
100-D-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.028	--[a]	--
100-D-22_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,200	--[a]	--
100-D-22_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,500	--[b]	--
100-D-22_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.059	--[a]	--
100-D-22_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
100-D-22_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.033	--[a]	--
100-D-22_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--[a]	--
100-D-22_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	930	No
100-D-22_Shallow	Rad	Uranium-238	U-238	pCi/g	0.84	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.49E+06	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	3.89E+08	No
100-D-24_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,300	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	271	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	58	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,900	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-24_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	201	1,343	No
100-D-24_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,200	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,300	4.03E+06	No
100-D-24_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	22	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	243	6,000[c]	No
100-D-24_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.08E+07	3.89E+08	No
100-D-24_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,100	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295,000	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	7.1	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	466	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,800	--[a]	--
100-D-24_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,956	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,700	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	41,600	--[a]	--
100-D-24_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	--[b]	--
100-D-24_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.66	--[b]	--
100-D-28:1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.94E+06	--[a]	--
100-D-28:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	32	--[b]	--
100-D-28:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	616	--[b]	--
100-D-28:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,242	3.89E+08	No
100-D-28:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	57,527	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	879	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	127	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	165	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	80	--[b]	--
100-D-28:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,042	--[b]	--
100-D-28:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	73	1,343	No
100-D-28:1_Overburden	non-Rad	Carbazole	86-74-8	ug/kg	76	--[b]	--
100-D-28:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,399	--[a]	--
100-D-28:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	559	--[b]	--
100-D-28:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,751	--[b]	--
100-D-28:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,727	4.03E+06	No
100-D-28:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	48	--[b]	--
100-D-28:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	374	--[b]	--
100-D-28:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	284	6,000[c]	No
100-D-28:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	96	--[b]	--
100-D-28:1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	3.89E+08	No
100-D-28:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	13,258	--[a]	--
100-D-28:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	283,917	--[b]	--
100-D-28:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	79	--[a]	--
100-D-28:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	330	--[b]	--
100-D-28:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,387	--[a]	--
100-D-28:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	827	--[b]	--
100-D-28:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	54,469	--[b]	--
100-D-28:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,796	--[a]	--
100-D-28:1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	45	--[b]	--
100-D-28:1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.12E+06	--[a]	--
100-D-28:1_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	110	--[b]	--
100-D-28:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	380	--[b]	--
100-D-28:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,258	3.89E+08	No
100-D-28:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,402	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	32	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	47	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	20	--[b]	--
100-D-28:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	90	--[b]	--
100-D-28:1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	--[b]	--
100-D-28:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,300	--[b]	--
100-D-28:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	130	1,343	No
100-D-28:1_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	--[b]	--
100-D-28:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,867	--[a]	--
100-D-28:1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	47	--[b]	--
100-D-28:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,101	--[b]	--
100-D-28:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,362	4.03E+06	No
100-D-28:1_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	43	--[b]	--
100-D-28:1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	30	--[b]	--
100-D-28:1_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	50	--[b]	--
100-D-28:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	203	6,000[c]	No
100-D-28:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--[b]	--
100-D-28:1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.89E+08	No
100-D-28:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,144	--[a]	--
100-D-28:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,116	--[b]	--
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	572	--[a]	--
100-D-28:1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	410	--[b]	--
100-D-28:1_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	46	--[b]	--
100-D-28:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,864	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-28:1_Shallow	non-Rad	Phenol	108-95-2	ug/kg	28	--[c]	--
100-D-28:1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	91	--[c]	--
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	20,079	No
100-D-28:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,615	--[b]	--
100-D-28:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,414	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.97	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.49	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.02E+06	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	3.3	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,592	3.89E+08	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	63,110	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[c]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	21	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	20	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	44	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,500	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	79	1,343	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,532	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	48	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	8,475	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	15,937	4.03E+06	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	28	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	237	6,000[c]	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.89E+08	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	4,780	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	290,098	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	8.4	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	340	--[c]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,462	--[a]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43,439	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	38,595	--[a]	--
100-D-29_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	686	--[b]	--
100-D-29_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,302	1.37E+07	No
100-D-29_Overburden	non-Rad	Barium	7440-39-3	ug/kg	62,796	--[c]	--
100-D-29_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	356	--[b]	--
100-D-29_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,128	--[b]	--
100-D-29_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,050	--[a]	--
100-D-29_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,731	--[b]	--
100-D-29_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,763	--[a]	--
100-D-29_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	297,023	--[c]	--
100-D-29_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.4	--[a]	--
100-D-29_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	260	--[b]	--
100-D-29_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,804	--[a]	--
100-D-29_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	494	--[b]	--
100-D-29_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65,107	--[c]	--
100-D-29_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,897	--[a]	--
100-D-29_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.14	1,032	No
100-D-29_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.014	72	No
100-D-29_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.15	--[c]	--
100-D-29_Overburden	Rad	Uranium-238	U-238	pCi/g	0.17	--[c]	--
100-D-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	618	--[c]	--
100-D-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,843	1.37E+07	No

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,887	--[b]	--
100-D-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	240	--[b]	--
100-D-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,333	--[b]	--
100-D-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	49	47	Yes
100-D-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,317	--[a]	--
100-D-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,282	--[b]	--
100-D-29_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,051	--[a]	--
100-D-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	292,330	--[b]	--
100-D-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	--[a]	--
100-D-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	290	--[b]	--
100-D-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,777	--[a]	--
100-D-29_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	853	--[b]	--
100-D-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	60,569	--[b]	--
100-D-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,906	--[a]	--
100-D-29_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.084	--[a]	--
100-D-29_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.014	72	No
100-D-29_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.26	--[b]	--
100-D-29_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.029	--[b]	--
100-D-29_Shallow	Rad	Uranium-238	U-238	pCi/g	0.29	--[b]	--
100-D-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	400	--[b]	--
100-D-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	1.37E+07	No
100-D-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	49,000	--[b]	--
100-D-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270	--[b]	--
100-D-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,200	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,800	--[b]	--
100-D-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	270,000	--[b]	--
100-D-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,600	--[a]	--
100-D-29_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	287	--[b]	--
100-D-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44,000	--[b]	--
100-D-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	33,000	--[a]	--
100-D-29_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.034	72	No
100-D-29_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.081	--[b]	--
100-D-29_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.096	--[b]	--
100-D-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	50	--[b]	--
100-D-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.13	--[a]	--
100-D-3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.11	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Acetone	67-64-1	ug/kg	6.7	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.58E+06	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.8	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,953	3.89E+08	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Barium	7440-39-3	ug/kg	76,789	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.5	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.2	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.2	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	215	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,018	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	82	1,343	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,844	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	1.7	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,971	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,458	4.03E+06	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	4.6	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	900	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.8	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.08E+07	3.89E+08	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,626	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318,306	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	13	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	386	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,377	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	4,032	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	710	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,120	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,757	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,650	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,390	--[a]	--
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.59	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	4.3	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.94E+06	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.0	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	659	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	16	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	11	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,936	3.89E+08	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	81,896	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.0	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.9	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.3	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	223	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,139	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	95	1,343	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,620	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.9	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,241	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,019	4.03E+06	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.4	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.3	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	205	6,000[c]	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	17	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.54E+07	3.89E+08	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,510	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	350,952	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	3.9	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	451	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,623	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	45,530	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	1,800	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	8,617	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	10	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	174	18,173	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	22,432	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,861	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,961	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,886	--[a]	--
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.64	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	--[b]	--
100-D-31:10_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.48	--[b]	--
100-D-31:10_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.76E+06	--[a]	--
100-D-31:10_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,618	3.89E+08	No
100-D-31:10_Overburden	non-Rad	Barium	7440-39-3	ug/kg	67,626	--[b]	--
100-D-31:10_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--[b]	--
100-D-31:10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,283	--[b]	--
100-D-31:10_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	99	1,343	No
100-D-31:10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,762	--[a]	--
100-D-31:10_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,309	--[b]	--
100-D-31:10_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,563	4.03E+06	No
100-D-31:10_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,219	--[b]	--
100-D-31:10_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	412	6,000[c]	No
100-D-31:10_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.89E+08	No
100-D-31:10_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,692	--[a]	--
100-D-31:10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	289,763	--[b]	--
100-D-31:10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	--[a]	--
100-D-31:10_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	290	--[b]	--
100-D-31:10_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,988	--[a]	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,040	--[b]	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	400	--[b]	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	880	--[b]	--
100-D-31:10_Overburden	non-Rad	Phenol	108-95-2	ug/kg	29	--[b]	--
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,978	--[b]	--
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,361	--[b]	--
100-D-31:10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	713	--[b]	--
100-D-31:10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	41,549	--[b]	--
100-D-31:10_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	36,532	--[a]	--
100-D-31:10_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	20	--[a]	--
100-D-31:10_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	29,357	No
100-D-31:10_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.24	--[b]	--
100-D-31:10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.25	--[b]	--
100-D-31:10_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.2	--[b]	--
100-D-31:10_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.4	--[a]	--
100-D-31:10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.99E+06	--[a]	--
100-D-31:10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,721	3.89E+08	No
100-D-31:10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,424	--[b]	--
100-D-31:10_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--[b]	--
100-D-31:10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,400	--[b]	--
100-D-31:10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	162	1,343	No
100-D-31:10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,199	--[a]	--
100-D-31:10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,426	--[b]	--
100-D-31:10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,570	4.03E+06	No
100-D-31:10_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,476	--[b]	--
100-D-31:10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	3.89E+08	No
100-D-31:10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,201	--[a]	--
100-D-31:10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	310,285	--[b]	--
100-D-31:10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.4	--[a]	--
100-D-31:10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	250	--[b]	--
100-D-31:10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,326	--[a]	--
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	7,582	--[b]	--
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,545	--[b]	--
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,000	--[b]	--
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,700	--[b]	--
100-D-31:10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	588	--[b]	--
100-D-31:10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,877	--[b]	--
100-D-31:10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,510	--[a]	--
100-D-31:10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.068	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:10_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.18	--[b]	--
100-D-31:10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.71	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.61E+06	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	3.89E+08	No
100-D-31:10_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	64,600	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	33	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	91	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	180	1,343	No
100-D-31:10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,900	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,200	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,300	4.03E+06	No
100-D-31:10_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,400	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.89E+08	No
100-D-31:10_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,800	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	318,000	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.8	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,300	--[a]	--
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,200	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,500	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,600	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,866	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,300	--[c]	--
100-D-31:10_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	47,800	--[a]	--
100-D-31:10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.63	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.6	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	100	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.69E+06	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	200	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,855	3.89E+08	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,352	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	159	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	114	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	79	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	48	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	94	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,300	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,301	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	83	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,491	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	18,617	4.03E+06	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	182	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	59	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,000	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	177	6,000[c]	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	201	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.55E+07	3.89E+08	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,374	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318,257	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	47	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,702	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	618	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	410	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	590	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	630	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,200	20,079	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,558	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,042	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	70,801	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47,795	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.15	--[a]	--
100-D-31:3, 100-D-31:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	29,357	No
100-D-31:3, 100-D-31:4_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.59	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.69	--[b]	--
100-D-31:3_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.26	--[b]	--
100-D-31:3_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--[a]	--
100-D-31:3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	--[b]	--
100-D-31:3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.43E+06	--[a]	--
100-D-31:3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,175	3.89E+08	No
100-D-31:3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,235	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	20	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	10	--[b]	--
100-D-31:3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	147	--[b]	--
100-D-31:3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	4,300	--[b]	--
100-D-31:3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,200	--[b]	--
100-D-31:3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	72	1,343	No
100-D-31:3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,656	--[a]	--
100-D-31:3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	45	--[b]	--
100-D-31:3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,346	--[b]	--
100-D-31:3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	18,362	4.03E+06	No
100-D-31:3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	97	--[b]	--
100-D-31:3_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	992	--[b]	--
100-D-31:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	181	6,000[c]	No
100-D-31:3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	54	--[b]	--
100-D-31:3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.55E+07	3.89E+08	No
100-D-31:3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,311	--[a]	--
100-D-31:3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	302,831	--[b]	--
100-D-31:3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	19	--[a]	--
100-D-31:3_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	--[b]	--
100-D-31:3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	380	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,006	--[a]	--
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,219	--[b]	--
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,248	--[b]	--
100-D-31:3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	97	--[b]	--
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,767	--[b]	--
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,440	--[b]	--
100-D-31:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,554	--[b]	--
100-D-31:3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,700	--[b]	--
100-D-31:3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	47,716	--[a]	--
100-D-31:3_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.75	--[b]	--
100-D-31:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.86	--[b]	--
100-D-31:4_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	23	--[b]	--
100-D-31:4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.61	--[b]	--
100-D-31:4_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.4	--[b]	--
100-D-31:4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.26E+06	--[a]	--
100-D-31:4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	562	--[b]	--
100-D-31:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	19	--[a]	--
100-D-31:4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,165	3.89E+08	No
100-D-31:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,687	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	649	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1,900	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,600	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	920	--[b]	--
100-D-31:4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	129	--[b]	--
100-D-31:4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	138	--[b]	--
100-D-31:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,000	--[b]	--
100-D-31:4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	85	1,343	No
100-D-31:4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	230	--[b]	--
100-D-31:4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.37	--[a]	--
100-D-31:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,358	--[a]	--
100-D-31:4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1,900	--[b]	--
100-D-31:4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	11,170	--[b]	--
100-D-31:4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,125	4.03E+06	No
100-D-31:4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	176	--[b]	--
100-D-31:4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	92	--[b]	--
100-D-31:4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4,200	--[b]	--
100-D-31:4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	243	--[b]	--
100-D-31:4_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	950	--[b]	--
100-D-31:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	437	6,000[c]	No
100-D-31:4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	975	--[b]	--
100-D-31:4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.61E+07	3.89E+08	No
100-D-31:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,636	--[a]	--
100-D-31:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,669	--[b]	--
100-D-31:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	42	--[a]	--
100-D-31:4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	--[b]	--
100-D-31:4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	320	--[b]	--
100-D-31:4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,006	--[a]	--
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	566	--[b]	--
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	436	--[b]	--
100-D-31:4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,276	--[b]	--
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	9,750	--[b]	--
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	36,219	--[b]	--
100-D-31:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,929	--[b]	--
100-D-31:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	85,009	--[b]	--
100-D-31:4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,937	--[a]	--
100-D-31:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.062	--[a]	--
100-D-31:4_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.55	--[b]	--
100-D-31:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.49E+06	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	473	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,520	3.89E+08	No
100-D-31:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	58,700	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	219	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	825	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	60	1,343	No
100-D-31:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,490	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,050	--[c]	--
100-D-31:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17,600	4.03E+06	No
100-D-31:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.7	--[c]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	6,000[c]	No
100-D-31:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.67E+07	3.89E+08	No
100-D-31:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,460	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	346,000	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	472	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,500	--[a]	--
100-D-31:4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	5,900	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,480	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,024	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	75,300	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,600	--[a]	--
100-D-31:4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.56	--[b]	--
100-D-31:4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.68	--[b]	--
100-D-31:5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,059	3.89E+08	No
100-D-31:5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	259,914	--[b]	--
100-D-31:5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	492	--[b]	--
100-D-31:5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	20,105	--[b]	--
100-D-31:5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,462	--[a]	--
100-D-31:5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,646	--[b]	--
100-D-31:5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	17,652	4.03E+06	No
100-D-31:5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	8,925	--[a]	--
100-D-31:5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	371,945	--[b]	--
100-D-31:5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	142	--[a]	--
100-D-31:5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	1,146	--[b]	--
100-D-31:5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	14,926	--[a]	--
100-D-31:5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	28,749	--[b]	--
100-D-31:5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,728	20,079	No
100-D-31:5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65,426	--[b]	--
100-D-31:5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	56,474	--[a]	--
100-D-31:5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,276	3.89E+08	No
100-D-31:5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	144,277	--[b]	--
100-D-31:5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	231	--[b]	--
100-D-31:5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10,484	--[b]	--
100-D-31:5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	242	1,343	No
100-D-31:5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,395	--[a]	--
100-D-31:5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,126	--[b]	--
100-D-31:5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,737	4.03E+06	No
100-D-31:5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,456	--[a]	--
100-D-31:5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	331,458	--[b]	--
100-D-31:5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240	--[a]	--
100-D-31:5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	700	--[b]	--
100-D-31:5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,579	--[a]	--
100-D-31:5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	46,047	--[b]	--
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,500	20,079	No
100-D-31:5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,696	--[b]	--
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	89,617	--[a]	--
100-D-31:6_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.30	--[b]	--
100-D-31:6_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	556	--[b]	--
100-D-31:6_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,551	3.89E+08	No
100-D-31:6_Overburden	non-Rad	Barium	7440-39-3	ug/kg	110,920	--[b]	--
100-D-31:6_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1,380	--[b]	--
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,998	--[b]	--
100-D-31:6_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	60	1,343	No
100-D-31:6_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,736	--[a]	--
100-D-31:6_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	14	--[b]	--
100-D-31:6_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,947	--[b]	--
100-D-31:6_Overburden	non-Rad	Copper	7440-50-8	ug/kg	24,687	4.03E+06	No
100-D-31:6_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	3.0	2,774	No
100-D-31:6_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,709	--[b]	--
100-D-31:6_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.0	--[a]	--
100-D-31:6_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	607	6,000[c]	No
100-D-31:6_Overburden	non-Rad	Lead	7439-92-1	ug/kg	7,537	--[a]	--
100-D-31:6_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	355,498	--[b]	--
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	870	--[a]	--
100-D-31:6_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	326	--[b]	--
100-D-31:6_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,583	--[a]	--
100-D-31:6_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,654	--[b]	--
100-D-31:6_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,499	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:6_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	65,614	--[a]	--
100-D-31:6_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	800	--[b]	--
100-D-31:6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,998	3.89E+08	No
100-D-31:6_Shallow	non-Rad	Barium	7440-39-3	ug/kg	105,118	--[b]	--
100-D-31:6_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.0	--[b]	--
100-D-31:6_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,274	--[b]	--
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,860	--[b]	--
100-D-31:6_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	103	1,343	No
100-D-31:6_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,798	--[a]	--
100-D-31:6_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.3	--[b]	--
100-D-31:6_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,066	--[b]	--
100-D-31:6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	26,377	4.03E+06	No
100-D-31:6_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,172	--[b]	--
100-D-31:6_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	363	6,000[c]	No
100-D-31:6_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,354	--[a]	--
100-D-31:6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330,083	--[b]	--
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	577	--[a]	--
100-D-31:6_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	460	--[b]	--
100-D-31:6_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,585	--[a]	--
100-D-31:6_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	6,985	--[b]	--
100-D-31:6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,023	--[b]	--
100-D-31:6_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	63,960	--[a]	--
100-D-31:7_Overburden	non-Rad	2-Butanone	78-93-3	ug/kg	2.0	--[b]	--
100-D-31:7_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.67	--[b]	--
100-D-31:7_Overburden	non-Rad	Acetone	67-64-1	ug/kg	13	--[b]	--
100-D-31:7_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.17E+06	--[a]	--
100-D-31:7_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	404	--[b]	--
100-D-31:7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.2	--[a]	--
100-D-31:7_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,862	3.89E+08	No
100-D-31:7_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,232	--[b]	--
100-D-31:7_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
100-D-31:7_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1,700	--[b]	--
100-D-31:7_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	73	--[b]	--
100-D-31:7_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,305	--[b]	--
100-D-31:7_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	46	1,343	No
100-D-31:7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,038	--[a]	--
100-D-31:7_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,775	--[b]	--
100-D-31:7_Overburden	non-Rad	Copper	7440-50-8	ug/kg	20,400	4.03E+06	No
100-D-31:7_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,300	--[b]	--
100-D-31:7_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	3.89E+08	No
100-D-31:7_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,665	--[a]	--
100-D-31:7_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	304,518	--[b]	--
100-D-31:7_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	--[b]	--
100-D-31:7_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	514	--[b]	--
100-D-31:7_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,125	--[a]	--
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	939	--[b]	--
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	687	--[b]	--
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,767	--[b]	--
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,876	--[b]	--
100-D-31:7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	472	--[b]	--
100-D-31:7_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,619	--[b]	--
100-D-31:7_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,804	--[a]	--
100-D-31:7_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.11	29,357	No
100-D-31:7_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.16	--[b]	--
100-D-31:7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.16	--[b]	--
100-D-31:7_Shallow	non-Rad	2-Butanone	78-93-3	ug/kg	1.8	--[b]	--
100-D-31:7_Shallow	non-Rad	Acetone	67-64-1	ug/kg	8.0	--[b]	--
100-D-31:7_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	4.77E+06	--[a]	--
100-D-31:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,391	3.89E+08	No
100-D-31:7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,248	--[b]	--
100-D-31:7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,500	--[b]	--
100-D-31:7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--[b]	--
100-D-31:7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,234	--[a]	--
100-D-31:7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,431	--[b]	--
100-D-31:7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,912	4.03E+06	No
100-D-31:7_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.76E+07	3.89E+08	No
100-D-31:7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1,794	--[a]	--
100-D-31:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	335,983	--[b]	--
100-D-31:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	92	--[a]	--
100-D-31:7_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	--[b]	--
100-D-31:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	260	--[b]	--
100-D-31:7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,657	--[a]	--
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	696	--[b]	--
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,459	--[b]	--
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	900	--[b]	--
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,100	--[b]	--
100-D-31:7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	324	--[b]	--
100-D-31:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,980	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,513	--[a]	--
100-D-31:7_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.11	--[b]	--
100-D-31:7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.11	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.73E+06	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,000	3.89E+08	No
100-D-31:7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	75,300	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	63	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,600	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17,900	4.03E+06	No
100-D-31:7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.69E+07	3.89E+08	No
100-D-31:7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,800	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	230	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,400	--[a]	--
100-D-31:7_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	700	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	363	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	79,500	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,100	--[a]	--
100-D-31:7_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.17	--[b]	--
100-D-31:7_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.12	--[b]	--
100-D-31:8_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.73E+06	--[a]	--
100-D-31:8_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,796	3.89E+08	No
100-D-31:8_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,527	--[b]	--
100-D-31:8_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.0	--[b]	--
100-D-31:8_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.0	--[b]	--
100-D-31:8_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,200	--[b]	--
100-D-31:8_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	49	1,343	No
100-D-31:8_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,017	--[a]	--
100-D-31:8_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	13	--[b]	--
100-D-31:8_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,458	--[b]	--
100-D-31:8_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,323	4.03E+06	No
100-D-31:8_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,168	--[b]	--
100-D-31:8_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	332	6,000[c]	No
100-D-31:8_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.46E+07	3.89E+08	No
100-D-31:8_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,584	--[a]	--
100-D-31:8_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	339,535	--[b]	--
100-D-31:8_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.8	--[a]	--
100-D-31:8_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	--[b]	--
100-D-31:8_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,368	--[a]	--
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,023	--[b]	--
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	783	--[b]	--
100-D-31:8_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,917	--[b]	--
100-D-31:8_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	839	--[b]	--
100-D-31:8_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	64,672	--[b]	--
100-D-31:8_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,758	--[a]	--
100-D-31:8_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.92	29,357	No
100-D-31:8_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.26	--[b]	--
100-D-31:8_Overburden	Rad	Uranium-238	U-238	pCi/g	0.28	--[b]	--
100-D-31:8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.63	--[a]	--
100-D-31:8_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.11E+06	--[a]	--
100-D-31:8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,205	3.89E+08	No
100-D-31:8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,186	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.9	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	12	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.9	--[b]	--
100-D-31:8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--[b]	--
100-D-31:8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	940	--[b]	--
100-D-31:8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	71	1,343	No
100-D-31:8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,290	--[a]	--
100-D-31:8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.2	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,016	--[b]	--
100-D-31:8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,311	4.03E+06	No
100-D-31:8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--[b]	--
100-D-31:8_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,850	--[b]	--
100-D-31:8_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.89E+08	No
100-D-31:8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,024	--[a]	--
100-D-31:8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	312,190	--[b]	--
100-D-31:8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.6	--[a]	--
100-D-31:8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	630	--[b]	--
100-D-31:8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,943	--[a]	--
100-D-31:8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	563	--[b]	--
100-D-31:8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	27	--[b]	--
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	--[b]	--
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,100	--[b]	--
100-D-31:8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	516	--[b]	--
100-D-31:8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,087	--[b]	--
100-D-31:8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,019	--[a]	--
100-D-31:8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.19	--[b]	--
100-D-31:8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.19	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.66E+06	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Antimony	7440-36-0	ug/kg	446	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,890	3.89E+08	No
100-D-31:8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	70,500	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	169	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	65	1,343	No
100-D-31:8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	6,790	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,000	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	16,200	4.03E+06	No
100-D-31:8_Shallow_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	6,000[c]	No
100-D-31:8_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.81E+07	3.89E+08	No
100-D-31:8_Shallow_Focused_1	non-Rad	Isophorone	78-59-1	ug/kg	77	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	2,510	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	334,000	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Mercury	7439-97-6	ug/kg	26	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	502	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	8,890	--[a]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	9,400	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Silver	7440-22-4	ug/kg	147	18,173	No
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	94,900	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	51,800	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	2.06E+07	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	5,900	3.89E+08	No
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	1.57E+06	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1,300	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	169,000	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	430	1,343	No
100-D-31:8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	13,400	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,900	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	42,400	4.03E+06	No
100-D-31:8_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	3.89E+08	No
100-D-31:8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	24,200	--[a]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	368,000	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	120	--[c]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2,300	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	19,700	--[c]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	67,200	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	83,000	--[a]	--
100-D-31:9_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	31	--[b]	--
100-D-31:9_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	12	--[a]	--
100-D-31:9_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.04E+06	--[a]	--
100-D-31:9_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,175	3.89E+08	No
100-D-31:9_Overburden	non-Rad	Barium	7440-39-3	ug/kg	58,676	--[b]	--
100-D-31:9_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--[b]	--
100-D-31:9_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	74	1,343	No
100-D-31:9_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	5,328	--[a]	--
100-D-31:9_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,066	--[b]	--
100-D-31:9_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,689	4.03E+06	No
100-D-31:9_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	900	--[b]	--
100-D-31:9_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	3.89E+08	No
100-D-31:9_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,029	--[a]	--
100-D-31:9_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	292,130	--[b]	--
100-D-31:9_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.6	--[a]	--
100-D-31:9_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	360	--[b]	--
100-D-31:9_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,187	--[a]	--
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	652	--[b]	--
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,300	--[b]	--
100-D-31:9_Overburden	non-Rad	Phenol	108-95-2	ug/kg	24	--[b]	--
100-D-31:9_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,800	--[b]	--
100-D-31:9_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	773	--[b]	--
100-D-31:9_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	52,680	--[b]	--
100-D-31:9_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	39,155	--[a]	--
100-D-31:9_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.23	--[b]	--
100-D-31:9_Overburden	Rad	Uranium-238	U-238	pCi/g	0.29	--[b]	--
100-D-31:9_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	4.84E+06	--[a]	--
100-D-31:9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,517	3.89E+08	No
100-D-31:9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,243	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	14	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	11	--[b]	--
100-D-31:9_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	114	--[b]	--
100-D-31:9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,100	--[b]	--
100-D-31:9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	53	1,343	No
100-D-31:9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,132	--[a]	--
100-D-31:9_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	19	--[b]	--
100-D-31:9_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,666	--[b]	--
100-D-31:9_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,871	4.03E+06	No
100-D-31:9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	222	6,000[c]	No
100-D-31:9_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	12	--[b]	--
100-D-31:9_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.89E+08	No
100-D-31:9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,853	--[a]	--
100-D-31:9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	318,748	--[b]	--
100-D-31:9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	6.6	--[a]	--
100-D-31:9_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	260	--[b]	--
100-D-31:9_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,678	--[a]	--
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	607	--[b]	--
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	690	--[b]	--
100-D-31:9_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	70	--[b]	--
100-D-31:9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	735	--[b]	--
100-D-31:9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	57,014	--[b]	--
100-D-31:9_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,433	--[a]	--
100-D-31:9_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.17	--[b]	--
100-D-31:9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.25	--[b]	--
100-D-32_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	--[b]	--
100-D-32_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,245	1.30E+07	No
100-D-32_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,480	--[b]	--
100-D-32_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	225	--[b]	--
100-D-32_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,234	--[b]	--
100-D-32_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	45	Yes
100-D-32_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,852	--[a]	--
100-D-32_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,061	--[b]	--
100-D-32_Overburden	non-Rad	Copper	7440-50-8	ug/kg	18,183	134,495	No
100-D-32_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,836	--[a]	--
100-D-32_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	369,294	--[b]	--
100-D-32_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	549	--[b]	--
100-D-32_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,365	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-32_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,762	--[b]	--
100-D-32_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	76,983	--[b]	--
100-D-32_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51,821	--[a]	--
100-D-32_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[b]	--
100-D-32_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.043	--[b]	--
100-D-32_Overburden	Rad	Uranium-238	U-238	pCi/g	0.59	--[b]	--
100-D-32_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	826	--[b]	--
100-D-32_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,499	1.30E+07	No
100-D-32_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,887	--[b]	--
100-D-32_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	694	--[b]	--
100-D-32_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,505	--[b]	--
100-D-32_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	200	45	Yes
100-D-32_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,447	--[a]	--
100-D-32_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,970	--[b]	--
100-D-32_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,997	134,495	No
100-D-32_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,774	--[a]	--
100-D-32_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	356,899	--[b]	--
100-D-32_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	568	--[b]	--
100-D-32_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,033	--[a]	--
100-D-32_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,466	--[b]	--
100-D-32_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	76,249	--[b]	--
100-D-32_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	62,123	--[a]	--
100-D-32_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.10	--[a]	--
100-D-32_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--[a]	--
100-D-32_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	--[b]	--
100-D-32_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.14	--[b]	--
100-D-32_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[b]	--
100-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,274	--[b]	--
100-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.13	--[a]	--
100-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	1.1	--[b]	--
100-D-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	71	--[a]	--
100-D-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	120	--[a]	--
100-D-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	199	6,000	No
100-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,831	--[b]	--
100-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
100-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[a]	--
100-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.13	2,936	No
100-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.67E+06	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	393	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,340	3.77E+07	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Barium	7440-39-3	ug/kg	61,074	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	233	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Boron	7440-42-8	ug/kg	929	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	101	130	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,297	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,359	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Copper	7440-50-8	ug/kg	26,641	390,570	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,752	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	316,433	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	513	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,120	--[a]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	700	1,948	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	63,875	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,856	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.30E+06	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	456	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,740	3.77E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,900	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	242	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,181	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	91	130	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,963	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,682	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	ug/kg	90,384	390,570	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,745	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	313,773	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	520	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,516	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,326	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,192	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.16	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.54E+06	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	3.77E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,000	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	100	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	660	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160	130	Yes
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,500	390,570	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.9	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,200	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	335,000	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	530	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	77,900	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,000	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.64	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	--[a]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	464	--[a]	--
100-D-47_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	789	--[b]	--
100-D-47_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,159	1.19E+07	No
100-D-47_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,847	--[b]	--
100-D-47_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	225	--[b]	--
100-D-47_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,497	--[b]	--
100-D-47_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	41	Yes
100-D-47_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,948	--[a]	--
100-D-47_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,295	--[b]	--
100-D-47_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,504	123,143	No
100-D-47_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,065	--[a]	--
100-D-47_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	342,771	--[b]	--
100-D-47_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
100-D-47_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	492	--[b]	--
100-D-47_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,406	--[a]	--
100-D-47_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,713	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-47_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	68,752	--[b]	--
100-D-47_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	45,248	--[a]	--
100-D-47_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.0	898	No
100-D-47_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.64	--[b]	--
100-D-47_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.055	--[b]	--
100-D-47_Overburden	Rad	Uranium-238	U-238	pCi/g	0.57	--[b]	--
100-D-47_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,157	1.19E+07	No
100-D-47_Shallow	non-Rad	Barium	7440-39-3	ug/kg	74,542	--[b]	--
100-D-47_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	510	--[b]	--
100-D-47_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,317	--[b]	--
100-D-47_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	225	41	Yes
100-D-47_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,828	--[a]	--
100-D-47_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,982	--[b]	--
100-D-47_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,445	123,143	No
100-D-47_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,018	--[a]	--
100-D-47_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	338,839	--[b]	--
100-D-47_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	501	--[b]	--
100-D-47_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,351	--[a]	--
100-D-47_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,694	--[b]	--
100-D-47_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	70,090	--[b]	--
100-D-47_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	49,435	--[a]	--
100-D-47_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.090	--[a]	--
100-D-47_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.60	--[a]	--
100-D-47_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--[a]	--
100-D-47_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.2	--[a]	--
100-D-47_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.93	898	No
100-D-47_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[b]	--
100-D-47_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.039	--[b]	--
100-D-47_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	700	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	3.64E+07	No
100-D-47_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,600	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,700	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	125	Yes
100-D-47_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,300	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,500	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,100	376,334	No
100-D-47_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	320	6,000[c]	No
100-D-47_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,100	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,300	--[a]	--
100-D-47_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,551	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	85,700	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,300	--[a]	--
100-D-47_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.69	--[a]	--
100-D-47_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	--[a]	--
100-D-47_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.5	--[a]	--
100-D-47_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	36	--[a]	--
100-D-47_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.2	2,744	No
100-D-47_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[b]	--
100-D-47_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.52	--[b]	--
100-D-48:1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5,010	6,000[c]	No
100-D-48:1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,794	--[b]	--
100-D-48:1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.26	--[a]	--
100-D-48:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	30	--[a]	--
100-D-48:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	8.1	--[a]	--
100-D-48:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	64	--[a]	--
100-D-48:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	4.8	--[a]	--
100-D-48:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.51	--[a]	--
100-D-48:1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.68	29,357	No
100-D-48:1_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	--[b]	--
100-D-48:1_Deep	Rad	Uranium-238	U-238	pCi/g	0.60	--[b]	--
100-D-48:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	643	6,000[c]	No
100-D-48:1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,223	--[b]	--
100-D-48:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.27	--[a]	--
100-D-48:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.31	--[a]	--
100-D-48:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	29,357	No
100-D-48:1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	--[b]	--
100-D-48:1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.41	--[b]	--
100-D-48:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,488	--[b]	--
100-D-48:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.8	--[a]	--
100-D-48:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.39	--[a]	--
100-D-48:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	3.2	--[a]	--
100-D-48:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.53	--[a]	--
100-D-48:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.077	--[a]	--
100-D-48:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	29,357	No

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-48:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[b]	--
100-D-48:2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.064	--[b]	--
100-D-48:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.50	--[b]	--
100-D-48:2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	608	6,000[c]	No
100-D-48:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,415	--[b]	--
100-D-48:2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.091	--[a]	--
100-D-48:2_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	--[a]	--
100-D-48:2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.11	--[a]	--
100-D-48:2_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.025	--[a]	--
100-D-48:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[b]	--
100-D-48:2_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.035	--[b]	--
100-D-48:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.48	--[b]	--
100-D-48:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,496	--[b]	--
100-D-48:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.89	--[a]	--
100-D-48:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.096	--[a]	--
100-D-48:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.56	--[a]	--
100-D-48:2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	--[a]	--
100-D-48:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.046	--[a]	--
100-D-48:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.18	29,357	No
100-D-48:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[b]	--
100-D-48:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.030	--[b]	--
100-D-48:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[b]	--
100-D-48:3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	587	6,000[c]	No
100-D-48:3_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,230	--[b]	--
100-D-48:3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.7	--[a]	--
100-D-48:3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	--[a]	--
100-D-48:3_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.67	--[a]	--
100-D-48:3_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.071	--[a]	--
100-D-48:3_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.19	--[a]	--
100-D-48:3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	29,357	No
100-D-48:3_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[b]	--
100-D-48:3_Deep	Rad	Uranium-238	U-238	pCi/g	0.41	--[b]	--
100-D-48:3_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,278	--[b]	--
100-D-48:3_Overburden	Rad	Americium-241	14596-10-2	pCi/g	0.052	--[a]	--
100-D-48:3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.21	--[a]	--
100-D-48:3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.040	--[a]	--
100-D-48:3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.25	--[a]	--
100-D-48:3_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	0.37	--[a]	--
100-D-48:3_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.4	--[a]	--
100-D-48:3_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[b]	--
100-D-48:3_Overburden	Rad	Uranium-238	U-238	pCi/g	0.43	--[b]	--
100-D-48:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	802	6,000[c]	No
100-D-48:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,499	--[b]	--
100-D-48:3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.053	--[a]	--
100-D-48:3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.78	--[a]	--
100-D-48:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.13	--[a]	--
100-D-48:3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.061	--[a]	--
100-D-48:3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	29,357	No
100-D-48:3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[b]	--
100-D-48:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[b]	--
100-D-48:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	6,000[c]	No
100-D-48:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,596	--[b]	--
100-D-48:4_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.029	--[a]	--
100-D-48:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.44	--[a]	--
100-D-48:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.043	--[a]	--
100-D-48:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[a]	--
100-D-48:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.028	--[a]	--
100-D-48:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.44	29,357	No
100-D-48:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.49	--[b]	--
100-D-48:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.54	--[b]	--
100-D-49:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,300	6,000[c]	No
100-D-49:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,717	--[b]	--
100-D-49:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	62	--[a]	--
100-D-49:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.6	--[a]	--
100-D-49:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	24	--[a]	--
100-D-49:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.9	--[a]	--
100-D-49:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.26	--[a]	--
100-D-49:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	29,357	No
100-D-49:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[b]	--
100-D-49:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	--[b]	--
100-D-49:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,063	--[b]	--
100-D-49:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
100-D-49:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.24	--[a]	--
100-D-49:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	--[b]	--
100-D-49:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.089	--[b]	--
100-D-49:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.36	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-49:3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,762	--[c]	--
100-D-49:3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[c]	--
100-D-49:3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.59	--[b]	--
100-D-49:4_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,638	--[a]	--
100-D-49:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	42	--[a]	--
100-D-49:4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,348	--[b]	--
100-D-49:4_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.040	--[a]	--
100-D-49:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.1	--[a]	--
100-D-49:4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	--[a]	--
100-D-49:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	8.3	--[a]	--
100-D-49:4_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	--[a]	--
100-D-49:4_Deep	Rad	Nickel-63	13981-37-8	pCi/g	3.0	--[a]	--
100-D-49:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	--[a]	--
100-D-49:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	29,357	No
100-D-49:4_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[b]	--
100-D-49:4_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.074	--[b]	--
100-D-49:4_Deep	Rad	Uranium-238	U-238	pCi/g	0.45	--[b]	--
100-D-49:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	170	--[a]	--
100-D-49:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	21,359	--[a]	--
100-D-49:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	33	--[a]	--
100-D-49:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,458	--[b]	--
100-D-49:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.45	--[a]	--
100-D-49:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.058	--[a]	--
100-D-49:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5	--[a]	--
100-D-49:4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	--[a]	--
100-D-49:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	--[a]	--
100-D-49:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[b]	--
100-D-49:4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.054	--[b]	--
100-D-49:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[b]	--
100-D-50:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.37E+06	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	3.89E+08	No
100-D-50:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,600	--[b]	--
100-D-50:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	419	--[b]	--
100-D-50:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	811	--[b]	--
100-D-50:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	1,343	No
100-D-50:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,400	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,400	--[b]	--
100-D-50:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,500	4.03E+06	No
100-D-50:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	3.89E+08	No
100-D-50:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,500	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	--[b]	--
100-D-50:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	243	--[b]	--
100-D-50:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	--[a]	--
100-D-50:5_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1.5	--[c]	--
100-D-50:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34,900	--[b]	--
100-D-50:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	32,900	--[a]	--
100-D-52_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,900	--[b]	--
100-D-52_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,400	--[a]	--
100-D-52_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,300	--[a]	--
100-D-52_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,646	--[b]	--
100-D-52_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.065	--[a]	--
100-D-52_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.36	--[a]	--
100-D-52_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[c]	--
100-D-52_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	--[b]	--
100-D-56:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	1,200	--[b]	--
100-D-56:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,522	3.89E+08	No
100-D-56:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	70,319	--[c]	--
100-D-56:1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	570	--[c]	--
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,633	--[c]	--
100-D-56:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	189	1,343	No
100-D-56:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,204	--[a]	--
100-D-56:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,320	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-56:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	16,174	4.03E+06	No
100-D-56:1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	3,300	--[b]	--
100-D-56:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	271	6,000[c]	No
100-D-56:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	9,649	--[a]	--
100-D-56:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	327,758	--[b]	--
100-D-56:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	75	--[a]	--
100-D-56:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	950	--[b]	--
100-D-56:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,053	--[a]	--
100-D-56:1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	22,648	--[b]	--
100-D-56:1_Overburden	non-Rad	Nitrite	14797-65-0	ug/kg	4,080	--[b]	--
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2,100	20,079	No
100-D-56:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,593	--[b]	--
100-D-56:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	66,962	--[a]	--
100-D-56:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,100	--[b]	--
100-D-56:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,560	3.89E+08	No
100-D-56:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	59,734	--[b]	--
100-D-56:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	496	--[b]	--
100-D-56:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,600	--[b]	--
100-D-56:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	195	1,343	No
100-D-56:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,457	--[a]	--
100-D-56:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,300	--[b]	--
100-D-56:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,186	4.03E+06	No
100-D-56:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[c]	No
100-D-56:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,080	--[a]	--
100-D-56:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	290,501	--[b]	--
100-D-56:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20	--[a]	--
100-D-56:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,800	--[a]	--
100-D-56:1_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	29,400	--[b]	--
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	20,079	No
100-D-56:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	49,162	--[b]	--
100-D-56:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,499	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,000	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	3.89E+08	No
100-D-56:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,900	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	550	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,600	4.03E+06	No
100-D-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[c]	No
100-D-56:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,000	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	339,000	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	10	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,100	--[a]	--
100-D-56:1_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	8,830	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	240	18,173	No
100-D-56:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51,100	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,900	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Antimony	7440-36-0	ug/kg	500	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Arsenic	7440-38-2	ug/kg	3,421	3.89E+08	No
100-D-56:2_Overburden_4	non-Rad	Barium	7440-39-3	ug/kg	71,232	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Beryllium	7440-41-7	ug/kg	984	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Boron	7440-42-8	ug/kg	1,250	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Cadmium	7440-43-9	ug/kg	121	1,343	No
100-D-56:2_Overburden_4	non-Rad	Chromium	7440-47-3	ug/kg	17,678	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Cobalt	7440-48-4	ug/kg	7,597	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Copper	7440-50-8	ug/kg	15,676	4.03E+06	No
100-D-56:2_Overburden_4	non-Rad	Fluoride	16984-48-8	ug/kg	1,700	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	371	6,000[c]	No
100-D-56:2_Overburden_4	non-Rad	Lead	7439-92-1	ug/kg	4,232	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Manganese	7439-96-5	ug/kg	311,404	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Molybdenum	7439-98-7	ug/kg	350	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Nickel	7440-02-0	ug/kg	11,138	--[a]	--
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,188	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	638	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Vanadium	7440-62-2	ug/kg	56,980	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Zinc	7440-66-6	ug/kg	56,993	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Arsenic	7440-38-2	ug/kg	2,947	3.89E+08	No
100-D-56:2_Overburden_5	non-Rad	Barium	7440-39-3	ug/kg	67,670	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Beryllium	7440-41-7	ug/kg	1,271	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Boron	7440-42-8	ug/kg	1,407	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Cadmium	7440-43-9	ug/kg	86	1,343	No
100-D-56:2_Overburden_5	non-Rad	Chromium	7440-47-3	ug/kg	16,179	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Cobalt	7440-48-4	ug/kg	7,547	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Copper	7440-50-8	ug/kg	15,393	4.03E+06	No
100-D-56:2_Overburden_5	non-Rad	Fluoride	16984-48-8	ug/kg	1,091	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	223	6,000[c]	No
100-D-56:2_Overburden_5	non-Rad	Lead	7439-92-1	ug/kg	4,438	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Manganese	7439-96-5	ug/kg	306,866	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Mercury	7439-97-6	ug/kg	21	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Nickel	7440-02-0	ug/kg	10,692	--[a]	--
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,535	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	492	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Vanadium	7440-62-2	ug/kg	52,528	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Zinc	7440-66-6	ug/kg	41,330	--[a]	--
100-D-56:2_Overburden_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	493	6,000[c]	No
100-D-56:2_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,000	3.89E+08	No
100-D-56:2_Overburden_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	65,000	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1,400	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	11,000	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	16,000	4.03E+06	No
100-D-56:2_Overburden_Focused_2	non-Rad	Fluoride	16984-48-8	ug/kg	3,400	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	4,200	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	310,000	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	280	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	11,000	--[a]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,300	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,000	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	42,000	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	420	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,208	3.89E+08	No
100-D-56:2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	62,220	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	405	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,525	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	65	1,343	No
100-D-56:2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,824	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,636	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	14,188	4.03E+06	No
100-D-56:2_Shallow_1	non-Rad	Fluoride	16984-48-8	ug/kg	1,750	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	244	6,000[c]	No
100-D-56:2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,872	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	306,134	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	9.7	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,388	--[a]	--
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	903	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	513	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-56:2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	56,966	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41,375	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,810	3.89E+08	No
100-D-56:2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	59,234	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	328	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,100	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	84	1,343	No
100-D-56:2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,515	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,536	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,635	4.03E+06	No
100-D-56:2_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	1,708	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,414	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	281,887	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	9.0	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,048	--[a]	--
100-D-56:2_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,478	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,416	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36,899	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	3,170	3.89E+08	No
100-D-56:2_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	67,570	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	1,164	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,605	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	96	1,343	No
100-D-56:2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9,261	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	8,173	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	15,431	4.03E+06	No
100-D-56:2_Shallow_3	non-Rad	Fluoride	16984-48-8	ug/kg	1,431	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	659	6,000[c]	No
100-D-56:2_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	5,446	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	322,267	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	10,049	--[a]	--
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,431	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	675	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	64,762	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	46,651	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.92E+06	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	390	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	3.89E+08	No
100-D-56:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,500	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	140	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	93	1,343	No
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	29,300	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,800	4.03E+06	No
100-D-56:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	662	6,000[c]	No
100-D-56:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.23E+07	3.89E+08	No
100-D-56:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,700	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300,000	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	7.9	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	--[a]	--
100-D-56:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,400	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,600	3.89E+08	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Barium	7440-39-3	ug/kg	79,000	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	84	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-56:2_Staging pile area footprint_focused	non-Rad	Beryllium	7440-41-7	ug/kg	490	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	1,343	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chrysene	218-01-9	ug/kg	29	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,500	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	4.03E+06	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Manganese	7439-96-5	ug/kg	350,000	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Mercury	7439-97-6	ug/kg	9.7	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nickel	7440-02-0	ug/kg	11,000	--[a]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	590	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Pyrene	129-00-0	ug/kg	15	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Vanadium	7440-62-2	ug/kg	55,000	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Zinc	7440-66-6	ug/kg	44,000	--[a]	--
100-D-61_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.3	--[b]	--
100-D-61_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	5.2	--[b]	--
100-D-61_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	491	--[b]	--
100-D-61_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,006	1.38E+07	No
100-D-61_Shallow	non-Rad	Barium	7440-39-3	ug/kg	158,794	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	16	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.5	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.5	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.6	--[b]	--
100-D-61_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	865	--[b]	--
100-D-61_Shallow	non-Rad	Boron	7440-42-8	ug/kg	11,172	--[b]	--
100-D-61_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,565	--[a]	--
100-D-61_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	15	--[b]	--
100-D-61_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,407	--[b]	--
100-D-61_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,831	142,390	No
100-D-61_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--[b]	--
100-D-61_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--[b]	--
100-D-61_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	2.6	--[b]	--
100-D-61_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	6,000[c]	No
100-D-61_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,459	--[a]	--
100-D-61_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	347,567	--[b]	--
100-D-61_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13	--[a]	--
100-D-61_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	516	--[b]	--
100-D-61_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,720	--[a]	--
100-D-61_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	43	--[b]	--
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,040	710	Yes
100-D-61_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	11,436	--[b]	--
100-D-61_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,682	--[b]	--
100-D-61_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,816	--[a]	--
100-D-7_Shallow_1	non-Rad	2-Butanone	78-93-3	ug/kg	1.7	--[b]	--
100-D-7_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--[a]	--
100-D-7_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	15	--[b]	--
100-D-7_Shallow_1	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	--[b]	--
100-D-7_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.66E+06	--[a]	--
100-D-7_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,524	4.01E+06	No
100-D-7_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	59,795	--[b]	--
100-D-7_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	30	--[b]	--
100-D-7_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	126	--[b]	--
100-D-7_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,900	--[b]	--
100-D-7_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	46	14	Yes
100-D-7_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,035	--[a]	--
100-D-7_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,814	--[b]	--
100-D-7_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	11,689	41,513	No
100-D-7_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	130	--[b]	--
100-D-7_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	68	--[b]	--
100-D-7_Shallow_1	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.52	0.96	No
100-D-7_Shallow_1	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.75	0.92	No
100-D-7_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	184	6,000[c]	No
100-D-7_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	29	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-7_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	4.01E+06	Yes
100-D-7_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,490	--[a]	--
100-D-7_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	290,472	--[b]	--
100-D-7_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	6.5	--[a]	--
100-D-7_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
100-D-7_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	382	--[b]	--
100-D-7_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9,120	--[a]	--
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	834	207	Yes
100-D-7_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	0.91	--[b]	--
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,386	--[b]	--
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,725	--[b]	--
100-D-7_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	70,960	--[b]	--
100-D-7_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	43,437	--[a]	--
100-D-7_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.55	--[b]	--
100-D-7_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.88	--[a]	--
100-D-7_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	--[b]	--
100-D-7_Shallow_2	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.22	--[b]	--
100-D-7_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.93E+06	--[a]	--
100-D-7_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,073	4.01E+06	No
100-D-7_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	81,723	--[b]	--
100-D-7_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	142	--[b]	--
100-D-7_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--[b]	--
100-D-7_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,533	--[b]	--
100-D-7_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	85	14	Yes
100-D-7_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	9,024	--[a]	--
100-D-7_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,015	--[b]	--
100-D-7_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	11,766	41,513	No
100-D-7_Shallow_2	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.59	0.96	No
100-D-7_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.85	0.92	No
100-D-7_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	236	6,000	No
100-D-7_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.36E+07	4.01E+06	Yes
100-D-7_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,003	--[a]	--
100-D-7_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	343,655	--[b]	--
100-D-7_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	12	--[a]	--
100-D-7_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	--[b]	--
100-D-7_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	353	--[b]	--
100-D-7_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9,973	--[a]	--
100-D-7_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	410	187	Yes
100-D-7_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,700	--[b]	--
100-D-7_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	63,913	--[b]	--
100-D-7_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	46,279	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	6.3	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	4.01E+06	No
100-D-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,300	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	180	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,200	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	63	14	Yes
100-D-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,400	41,513	No
100-D-7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	4.01E+06	Yes
100-D-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,300	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	303,000	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	8.8	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,600	--[a]	--
100-D-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,200	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	42,000	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.82	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.6	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Acetone	67-64-1	ug/kg	6.2	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.18E+06	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	100	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.9	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	49	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	ug/kg	1,625	4.01E+06	No
100-D-7_Staging pile area footprint	non-Rad	Barium	7440-39-3	ug/kg	72,000	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	ug/kg	155	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-7_Staging pile area footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,100	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,719	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	ug/kg	103	14	Yes
100-D-7_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,443	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,081	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Copper	7440-50-8	ug/kg	16,451	41,513	No
100-D-7_Staging pile area footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	452	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	285	6,000	No
100-D-7_Staging pile area footprint	non-Rad	Iron	7439-89-6	ug/kg	1.62E+07	4.01E+06	Yes
100-D-7_Staging pile area footprint	non-Rad	Lead	7439-92-1	ug/kg	5,630	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	279,739	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	ug/kg	304	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.7	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	340	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Nickel	7440-02-0	ug/kg	9,889	--[a]	--
100-D-7_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	710	187	Yes
100-D-7_Staging pile area footprint	non-Rad	Toluene	108-88-3	ug/kg	0.72	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,152	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,699	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	34,102	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.0	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Zinc	7440-66-6	ug/kg	40,486	--[a]	--
100-D-7_Staging pile area footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.056	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.30E+06	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,800	3.89E+08	No
100-D-70_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99,000	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	250	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	130	1,343	No
100-D-70_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,500	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,900	4.03E+06	No
100-D-70_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	3.89E+08	No
100-D-70_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,300	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.7	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,000	--[a]	--
100-D-70_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,200	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,000	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,400	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	61,100	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,800	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.01E+06	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	10	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	3.89E+08	No
100-D-74_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	54,300	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.9	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,400	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	4.03E+06	No
100-D-74_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.29E+07	3.89E+08	No
100-D-74_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	--[a]	--
100-D-74_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	320	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,500	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-74_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	40	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,600	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,900	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.82E+06	--[c]	--
100-D-75:3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	4.52E+07	No
100-D-75:3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,500	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	76	156	No
100-D-75:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,700	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,000	468,230	No
100-D-75:3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	4.52E+07	No
100-D-75:3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,000	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	297,000	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	350	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,100	--[a]	--
100-D-75:3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,400	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,600	--[a]	--
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,300	--[b]	--
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,600	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.15E+06	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.5	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	1.22E+07	No
100-D-82_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	27,800	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	93	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	49	42	Yes
100-D-82_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,300	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	8,700	125,837	No
100-D-82_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	9.96E+06	1.22E+07	No
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	134,000	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	164,000	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	290	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6,900	--[a]	--
100-D-82_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	17,800	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	37,500	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.62E+06	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	550	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	3.89E+08	No
100-D-83:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,400	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	52	1,343	No
100-D-83:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,200	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,400	4.03E+06	No
100-D-83:4_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,000	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	172	6,000	No
100-D-83:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.58E+07	3.89E+08	No
100-D-83:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,600	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	950	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-83:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	440	--[c]	--
100-D-83:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,900	--[a]	--
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,600	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,500	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,100	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,100	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.16E+06	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	3.89E+08	No
100-D-84:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	74,700	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.4	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	79	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	43	1,343	No
100-D-84:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,800	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,200	4.03E+06	No
100-D-84:1_Shallow_Focused	non-Rad	Diethylphthalate	84-66-2	ug/kg	72	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.87E+07	3.89E+08	No
100-D-84:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	343,000	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	120	--[e]	--
100-D-84:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	--[a]	--
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	9,400	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	10,200	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	52,500	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.99E+06	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,100	3.89E+08	No
100-D-85:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,900	--[b]	--
100-D-85:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	88	--[b]	--
100-D-85:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,400	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[b]	--
100-D-85:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	11,600	4.03E+06	No
100-D-85:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.89E+08	No
100-D-85:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,800	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	--[b]	--
100-D-85:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	--[b]	--
100-D-85:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,500	--[a]	--
100-D-85:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	--[c]	--
100-D-85:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,100	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.62E+06	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-87_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	480	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,000	3.54E+07	No
100-D-87_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	89,200	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	45	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	55	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	180	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,400	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	450	122	Yes
100-D-87_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,300	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	64	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,800	366,071	No
100-D-87_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	41	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.54E+07	No
100-D-87_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	19,300	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	304,000	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	380	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	--[a]	--
100-D-87_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	55	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,000	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,600	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.71E+06	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	510	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	3.89E+08	No
100-D-88_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	105,000	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,400	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,500	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	29,200	4.03E+06	No
100-D-88_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,900	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	6,000[c]	No
100-D-88_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	3.09E+07	3.89E+08	No
100-D-88_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	384,000	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	12	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,400	--[a]	--
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,900	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,800	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,300	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	15,000	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	104,000	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	63,900	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	7.0	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.89E+06	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,200	2.29E+08	No
100-D-9_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	63,800	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	470	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	29	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	820	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	170	790	No
100-D-9_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,600	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,300	2.37E+06	No
100-D-9_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	25	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.51E+07	2.29E+08	No
100-D-9_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,000	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	299,000	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	8.0	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	450	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,100	--[a]	--
100-D-9_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	67,300	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,100	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.97E+06	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	450	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	3.89E+08	No
100-D-94_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,800	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,300	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,000	4.03E+06	No
100-D-94_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-94_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	3.89E+08	No
100-D-94_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,700	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	275,000	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	580	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,000	--[a]	--
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,700	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,200	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	38,700	--[a]	--
116-D-10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	--[a]	--
116-D-10_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	463	--[b]	--
116-D-10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,666	2.56E+07	No
116-D-10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	69,640	--[b]	--
116-D-10_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	227	--[b]	--
116-D-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,220	--[b]	--
116-D-10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	109	88	Yes
116-D-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,278	--[a]	--
116-D-10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,369	--[b]	--
116-D-10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,218	264,920	No
116-D-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	213	6,000[c]	No
116-D-10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	2.56E+07	No
116-D-10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,465	--[a]	--
116-D-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	320,612	--[b]	--
116-D-10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	383	--[b]	--
116-D-10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,914	--[a]	--
116-D-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,491	--[b]	--
116-D-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	67,123	--[b]	--
116-D-10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,464	--[a]	--
116-D-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.092	--[a]	--
116-D-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[b]	--
116-D-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	4.68E+06	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Antimony	7440-36-0	ug/kg	484	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	2,037	2.56E+07	No
116-D-10_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	60,780	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	171	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	856	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Cadmium	7440-43-9	ug/kg	99	88	Yes
116-D-10_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	5,983	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	8,902	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	13,930	264,920	No
116-D-10_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	168	6,000[c]	No
116-D-10_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	2.62E+07	2.56E+07	Yes
116-D-10_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	2,894	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	318,856	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	15	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	414	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	8,845	--[a]	--
116-D-10_Staging Pile Area	non-Rad	Silver	7440-22-4	ug/kg	180	1,196	No
116-D-10_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,547	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	76,278	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	45,859	--[a]	--
116-D-10_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.079	--[a]	--
116-D-10_Staging Pile Area	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.89	1,931	No
116-D-10_Staging Pile Area	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	--[b]	--
116-D-10_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.52	--[b]	--
116-D-1A_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,740	6,000[c]	No
116-D-1A_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,667	--[b]	--
116-D-1A_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.7	--[a]	--
116-D-1A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	409	--[a]	--
116-D-1A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.8	--[a]	--
116-D-1A_Deep	Rad	Europium-152	14683-23-9	pCi/g	193	--[a]	--
116-D-1A_Deep	Rad	Europium-154	15585-10-1	pCi/g	16	--[a]	--
116-D-1A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.20	--[a]	--
116-D-1A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	11	--[a]	--
116-D-1A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21	29,357	No
116-D-1A_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[b]	--
116-D-1A_Deep	Rad	Uranium-238	U-238	pCi/g	0.56	--[b]	--
116-D-1A_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	611	6,000[c]	No
116-D-1A_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,451	--[b]	--
116-D-1A_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.15	--[a]	--
116-D-1A_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.76	--[a]	--
116-D-1A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--[a]	--
116-D-1A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	9,786	No
116-D-1A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[b]	--
116-D-1A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[b]	--
116-D-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,423	--[b]	--
116-D-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.068	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-D-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	--[b]	--
116-D-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.032	--[b]	--
116-D-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.47	--[b]	--
116-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,268	--[b]	--
116-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.050	--[a]	--
116-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[b]	--
116-D-4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.060	--[b]	--
116-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.42	--[b]	--
116-D-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.96	--[a]	--
116-D-5_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	7.77E+06	--[a]	--
116-D-5_Deep	non-Rad	Antimony	7440-36-0	ug/kg	358	--[b]	--
116-D-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,033	1.11E+07	No
116-D-5_Deep	non-Rad	Barium	7440-39-3	ug/kg	71,855	--[b]	--
116-D-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	95	--[b]	--
116-D-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	63	--[b]	--
116-D-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--[b]	--
116-D-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--[b]	--
116-D-5_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	227	--[b]	--
116-D-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	--[b]	--
116-D-5_Deep	non-Rad	Boron	7440-42-8	ug/kg	957	--[b]	--
116-D-5_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	87	38	Yes
116-D-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	17,916	--[a]	--
116-D-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	87	--[b]	--
116-D-5_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	9,088	--[b]	--
116-D-5_Deep	non-Rad	Copper	7440-50-8	ug/kg	18,442	115,051	No
116-D-5_Deep	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	36	--[b]	--
116-D-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	90	--[b]	--
116-D-5_Deep	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	--[b]	--
116-D-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	353	6,000[c]	No
116-D-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	62	--[b]	--
116-D-5_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.41E+07	1.11E+07	Yes
116-D-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,457	--[a]	--
116-D-5_Deep	non-Rad	Manganese	7439-96-5	ug/kg	338,530	--[b]	--
116-D-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	318	--[a]	--
116-D-5_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	350	--[b]	--
116-D-5_Deep	non-Rad	Nickel	7440-02-0	ug/kg	13,273	--[a]	--
116-D-5_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	35,000	--[b]	--
116-D-5_Deep	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	11,300	--[b]	--
116-D-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	7,925	--[b]	--
116-D-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	155	--[b]	--
116-D-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,735	--[b]	--
116-D-5_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	58,449	--[b]	--
116-D-5_Deep	non-Rad	Zinc	7440-66-6	ug/kg	50,192	--[a]	--
116-D-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1.1	--[a]	--
116-D-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.52	--[a]	--
116-D-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	839	No
116-D-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	--[b]	--
116-D-5_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.27	--[b]	--
116-D-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	--[b]	--
116-D-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.08E+06	--[a]	--
116-D-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	12	--[b]	--
116-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,147	1.11E+07	No
116-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	58,354	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	55	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--[b]	--
116-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	177	--[b]	--
116-D-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	854	--[b]	--
116-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	850	--[b]	--
116-D-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	62	38	Yes
116-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,881	--[a]	--
116-D-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	33	--[b]	--
116-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,546	--[b]	--
116-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,050	115,051	No
116-D-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.5	--[b]	--
116-D-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	131	--[b]	--
116-D-5_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.5	--[a]	--
116-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	151	6,000[c]	No
116-D-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[b]	--
116-D-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	1.11E+07	Yes
116-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,606	--[a]	--
116-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	284,702	--[b]	--
116-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	--[a]	--
116-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	305	--[b]	--
116-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	8,734	--[a]	--
116-D-5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	29,337	--[b]	--
116-D-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,757	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-D-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	79	--[b]	--
116-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,106	--[b]	--
116-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	56,601	--[b]	--
116-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,706	--[a]	--
116-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
116-D-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.10	--[a]	--
116-D-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	2.8	--[a]	--
116-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	--[b]	--
116-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	--[b]	--
116-D-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.94E+06	--[a]	--
116-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,877	1.11E+07	No
116-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,089	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	10	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.0	--[b]	--
116-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	212	--[b]	--
116-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,134	--[b]	--
116-D-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	67	38	Yes
116-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,365	--[a]	--
116-D-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	13	--[b]	--
116-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,905	--[b]	--
116-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,071	115,051	No
116-D-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	13	--[b]	--
116-D-5_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	480	--[b]	--
116-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	6,000[c]	No
116-D-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--[b]	--
116-D-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.35E+07	1.11E+07	Yes
116-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,775	--[a]	--
116-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	324,766	--[b]	--
116-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	65	--[a]	--
116-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	314	--[b]	--
116-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,277	--[a]	--
116-D-5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	9,325	--[b]	--
116-D-5_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	91,100	--[b]	--
116-D-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,479	--[b]	--
116-D-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	14	--[b]	--
116-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	1,300	519	Yes
116-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,935	--[b]	--
116-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	62,589	--[b]	--
116-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	51,204	--[a]	--
116-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.43	--[a]	--
116-D-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	--[a]	--
116-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.5	--[a]	--
116-D-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	--[a]	--
116-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.65	--[b]	--
116-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	6.6	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Aluminum	7429-90-5	ug/kg	5.64E+06	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Antimony	7440-36-0	ug/kg	239	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,371	1.11E+07	No
116-D-5_Staging pile area footprint	non-Rad	Barium	7440-39-3	ug/kg	61,781	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.2	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.0	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	ug/kg	185	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.5	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,067	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	ug/kg	59	38	Yes
116-D-5_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,014	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Chrysene	218-01-9	ug/kg	12	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	ug/kg	7,289	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Copper	7440-50-8	ug/kg	14,234	115,051	No

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-D-5_Staging pile area footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.4	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	8.8	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Fluoride	16984-48-8	ug/kg	300	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	149	6,000[c]	No
116-D-5_Staging pile area footprint	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	1.11E+07	Yes
116-D-5_Staging pile area footprint	non-Rad	Lead	7439-92-1	ug/kg	3,269	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	276,906	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Methoxychlor	72-43-5	ug/kg	20	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	281	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,057	--[a]	--
116-D-5_Staging pile area footprint	non-Rad	Nitrate	14797-55-8	ug/kg	13,893	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,627	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Pyrene	129-00-0	ug/kg	6.2	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	228	519	No
116-D-5_Staging pile area footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,770	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	52,464	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Zinc	7440-66-6	ug/kg	41,996	--[a]	--
116-D-5_Staging pile area footprint	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	--[b]	--
116-D-5_Staging pile area footprint	Rad	Uranium-238	U-238	pCi/g	0.59	--[b]	--
116-D-6_Deep	non-Rad	Acetone	67-64-1	ug/kg	10	--[b]	--
116-D-6_Deep	non-Rad	Barium	7440-39-3	ug/kg	54,700	--[b]	--
116-D-6_Deep	non-Rad	Chromium	7440-47-3	ug/kg	9,200	--[a]	--
116-D-6_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,800	--[a]	--
116-D-6_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	--[a]	--
116-D-6_Deep	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
116-D-6_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,265	--[b]	--
116-D-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.54	--[a]	--
116-D-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.9	--[a]	--
116-D-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.15	--[a]	--
116-D-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.038	--[a]	--
116-D-6_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[b]	--
116-D-6_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.081	--[b]	--
116-D-6_Deep	Rad	Uranium-238	U-238	pCi/g	0.43	--[b]	--
116-D-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	217,059	--[a]	--
116-D-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3,737	6,000[c]	No
116-D-7_Deep	non-Rad	Lead	7439-92-1	ug/kg	7,751	--[a]	--
116-D-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,873	--[a]	--
116-D-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	31	--[a]	--
116-D-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	23	--[a]	--
116-D-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	265	--[a]	--
116-D-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	37	--[a]	--
116-D-7_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.7	--[a]	--
116-D-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	725	--[a]	--
116-D-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.049	--[a]	--
116-D-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.96	--[a]	--
116-D-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	421	No
116-D-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,241	--[a]	--
116-D-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,126	6,000[c]	No
116-D-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,655	--[a]	--
116-D-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,474	--[b]	--
116-D-7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.014	--[a]	--
116-D-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
116-D-7_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.050	--[a]	--
116-D-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--[a]	--
116-D-7_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.047	--[a]	--
116-D-7_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.8	--[a]	--
116-D-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	--[b]	--
116-D-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.040	--[b]	--
116-D-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[b]	--
116-D-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.3	--[b]	--
116-D-8_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	21	--[b]	--
116-D-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	385	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-D-8_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	27	--[a]	--
116-D-8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,906	1.17E+07	No
116-D-8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	71,253	--[b]	--
116-D-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	31	--[b]	--
116-D-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--[b]	--
116-D-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	49	--[b]	--
116-D-8_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	475	--[b]	--
116-D-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	200	--[b]	--
116-D-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,417	--[b]	--
116-D-8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	61	40	Yes
116-D-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,654	--[a]	--
116-D-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	660	--[b]	--
116-D-8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,732	--[b]	--
116-D-8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,183	121,362	No
116-D-8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	56	--[b]	--
116-D-8_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	2,048	--[b]	--
116-D-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	41,188	--[a]	--
116-D-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	304,542	--[b]	--
116-D-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	23	--[a]	--
116-D-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
116-D-8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,657	--[a]	--
116-D-8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,208	--[b]	--
116-D-8_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,943	--[b]	--
116-D-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	24	--[b]	--
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	11,473	--[b]	--
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,750	--[b]	--
116-D-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	436	--[b]	--
116-D-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,268	--[b]	--
116-D-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	46,326	--[a]	--
116-D-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.7	--[a]	--
116-D-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39	885	No
116-D-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.15	--[b]	--
116-D-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.15	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.37E+06	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.6	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,800	1.17E+07	No
116-D-8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	47,900	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	41	40	Yes
116-D-8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	5,600	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,200	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	12,800	121,362	No
116-D-8_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	1.47E+07	1.17E+07	Yes
116-D-8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	35,000	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	232,000	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	9,700	--[a]	--
116-D-8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	22,100	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	26,900	--[a]	--
116-D-8_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	0.50	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	5.77E+06	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	490	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	96	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	180	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-D-8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,700	1.17E+07	No
116-D-8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	77,900	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	29	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	27	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	53	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	2,700	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	170	40	Yes
116-D-8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	10,100	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	45	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,000	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15,300	121,362	No
116-D-8_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	52	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	6,000[c]	No
116-D-8_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	1.17E+07	Yes
116-D-8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,800	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	301,000	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	29	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	370	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	9,900	--[a]	--
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	5,000	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,300	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	53	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1,200	605	Yes
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,000	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	46,000	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	765	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	58,700	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	55,200	--[a]	--
116-D-8_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	7.6	--[a]	--
116-D-8_Shallow_Focused_2	Rad	Uranium-234	13966-29-5	pCi/g	0.20	--[b]	--
116-D-8_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.26	--[b]	--
116-D-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,648	--[b]	--
116-D-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.055	--[a]	--
116-D-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.56	29,357	No
116-D-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	--[b]	--
116-D-9_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.051	--[b]	--
116-D-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	--[b]	--
116-DR-1,2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	900	6,000[c]	No
116-DR-1,2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	75	--[a]	--
116-DR-1,2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	3.5	--[a]	--
116-DR-1,2_Deep	Rad	Europium-152	14683-23-9	pCi/g	126	--[a]	--
116-DR-1,2_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.1	--[a]	--
116-DR-1,2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	49	--[a]	--
116-DR-1,2_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.077	--[a]	--
116-DR-1,2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.3	--[a]	--
116-DR-1,2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	29	1,012	No
116-DR-1,2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,432	--[b]	--
116-DR-1,2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.68	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-DR-1,2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	--[a]	--
116-DR-1,2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--[a]	--
116-DR-1,2_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.029	--[a]	--
116-DR-1,2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[b]	--
116-DR-1,2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.027	--[b]	--
116-DR-1,2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.48	--[b]	--
116-DR-10_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	--[a]	--
116-DR-10_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.0	--[a]	--
116-DR-10_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,958	1.30E+07	No
116-DR-10_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,524	--[b]	--
116-DR-10_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	190	--[b]	--
116-DR-10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,049	--[b]	--
116-DR-10_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	88	45	Yes
116-DR-10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,292	--[a]	--
116-DR-10_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,708	--[b]	--
116-DR-10_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,263	134,991	No
116-DR-10_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	1.30E+07	Yes
116-DR-10_Overburden	non-Rad	Lead	7439-92-1	ug/kg	7,026	--[a]	--
116-DR-10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	288,834	--[b]	--
116-DR-10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	35	--[a]	--
116-DR-10_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	307	--[b]	--
116-DR-10_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,734	--[a]	--
116-DR-10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,831	--[b]	--
116-DR-10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51,136	--[b]	--
116-DR-10_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,621	--[a]	--
116-DR-10_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	--[b]	--
116-DR-10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.62	--[b]	--
116-DR-10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.96E+06	--[a]	--
116-DR-10_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--[a]	--
116-DR-10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,821	9.77E+06	No
116-DR-10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57,993	--[b]	--
116-DR-10_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	182	--[b]	--
116-DR-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,035	--[b]	--
116-DR-10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	101	34	Yes
116-DR-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,445	--[a]	--
116-DR-10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,101	--[b]	--
116-DR-10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,970	101,099	No
116-DR-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	100	6,000[c]	No
116-DR-10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.00E+07	9.77E+06	Yes
116-DR-10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,281	--[a]	--
116-DR-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,317	--[b]	--
116-DR-10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	--[a]	--
116-DR-10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	332	--[b]	--
116-DR-10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,308	--[a]	--
116-DR-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,926	--[b]	--
116-DR-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,456	--[b]	--
116-DR-10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,543	--[a]	--
116-DR-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	--[a]	--
116-DR-10_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.16	--[a]	--
116-DR-10_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.043	--[a]	--
116-DR-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[b]	--
116-DR-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.99E+06	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,790	3.89E+08	No
116-DR-10_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	41,600	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	161	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	598	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	143	1,343	No
116-DR-10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,650	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,370	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	4.03E+06	No
116-DR-10_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	240	6,000[c]	No
116-DR-10_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.66E+07	3.89E+08	No
116-DR-10_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,750	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	310,000	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	13	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-DR-10_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	497	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,630	--[a]	--
116-DR-10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,164	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	73,400	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,500	--[a]	--
116-DR-10_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.65	--[a]	--
116-DR-10_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.58	--[a]	--
116-DR-10_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	--[a]	--
116-DR-10_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	--[b]	--
116-DR-10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.39	--[b]	--
116-DR-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,477	--[b]	--
116-DR-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	--[a]	--
116-DR-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.65	--[b]	--
116-DR-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[b]	--
116-DR-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	7.32E+06	--[a]	--
116-DR-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,616	1.30E+07	No
116-DR-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	72,420	--[b]	--
116-DR-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	74	--[b]	--
116-DR-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[b]	--
116-DR-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	102	--[b]	--
116-DR-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	120	--[b]	--
116-DR-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,142	--[b]	--
116-DR-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,534	--[a]	--
116-DR-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	92	--[b]	--
116-DR-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,716	--[b]	--
116-DR-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	21,451	134,226	No
116-DR-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--[b]	--
116-DR-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	258	6,000[c]	No
116-DR-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--[b]	--
116-DR-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	1.30E+07	Yes
116-DR-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,039	--[a]	--
116-DR-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	336,163	--[b]	--
116-DR-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	51	--[a]	--
116-DR-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,348	--[a]	--
116-DR-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	87	--[b]	--
116-DR-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,213	--[b]	--
116-DR-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	59,625	--[b]	--
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	76,417	--[a]	--
116-DR-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.25	--[a]	--
116-DR-5_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.20	--[a]	--
116-DR-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.80	--[a]	--
116-DR-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	29	--[a]	--
116-DR-5_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.11	--[a]	--
116-DR-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	979	No
116-DR-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.20	69	No
116-DR-5_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.77	--[a]	--
116-DR-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.062	--[b]	--
116-DR-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.74	--[b]	--
116-DR-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.83E+06	--[a]	--
116-DR-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,551	1.30E+07	No
116-DR-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,792	--[b]	--
116-DR-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	146	--[b]	--
116-DR-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[b]	--
116-DR-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	178	--[b]	--
116-DR-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	246	--[b]	--
116-DR-5_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	67	--[b]	--
116-DR-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,500	--[b]	--
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	25,436	--[a]	--
116-DR-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	169	--[b]	--
116-DR-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,533	--[b]	--
116-DR-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	21,728	134,226	No
116-DR-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	250	--[b]	--
116-DR-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	554	6,000[c]	No
116-DR-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	38	--[b]	--
116-DR-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.23E+07	1.30E+07	Yes
116-DR-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,907	--[a]	--
116-DR-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	309,849	--[b]	--
116-DR-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	48	--[a]	--
116-DR-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	540	--[b]	--
116-DR-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,850	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-DR-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	237	--[b]	--
116-DR-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,812	--[b]	--
116-DR-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	55,591	--[b]	--
116-DR-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,492	--[a]	--
116-DR-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.96	--[a]	--
116-DR-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	--[a]	--
116-DR-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.5	--[a]	--
116-DR-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	30	--[a]	--
116-DR-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.12	--[a]	--
116-DR-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	979	No
116-DR-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.20	69	No
116-DR-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.0	--[b]	--
116-DR-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.42	--[b]	--
116-DR-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.93	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.65E+06	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	1.30E+07	No
116-DR-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,300	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	56	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	70	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	71	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,600	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	62	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	26,100	134,226	No
116-DR-5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	94	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	361	6,000[c]	No
116-DR-5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.31E+07	1.30E+07	Yes
116-DR-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,500	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325,000	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,900	--[a]	--
116-DR-5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,274	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	56,300	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,400	--[a]	--
116-DR-5_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.95	--[a]	--
116-DR-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.53	--[a]	--
116-DR-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.1	--[a]	--
116-DR-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.30	69	No
116-DR-5_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.89	--[b]	--
116-DR-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.76	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	6.36E+06	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	2,837	1.50E+07	No
116-DR-5_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	58,874	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	110	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	62	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	11,197	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	7,808	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	17,612	154,876	No
116-DR-5_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	427	6,000[c]	No
116-DR-5_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	2.01E+07	1.50E+07	Yes
116-DR-5_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	2,929	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	292,940	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	24	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	11,700	--[a]	--
116-DR-5_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,095	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	51,250	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	39,187	--[a]	--
116-DR-5_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.14	--[a]	--
116-DR-5_Staging Pile Area	Rad	Tritium	10028-17-8	pCi/g	0.20	79	No
116-DR-5_Staging Pile Area	Rad	Uranium-234	13966-29-5	pCi/g	0.72	--[b]	--
116-DR-5_Staging Pile Area	Rad	Uranium-235	15117-96-1	pCi/g	0.11	--[b]	--
116-DR-5_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.70	--[b]	--
116-DR-6_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,369	--[b]	--
116-DR-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.5	--[a]	--
116-DR-6_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.31	--[a]	--
116-DR-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	14	--[a]	--
116-DR-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4	--[a]	--
116-DR-6_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	--[a]	--
116-DR-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.77	--[a]	--
116-DR-6_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.1	9,786	No
116-DR-6_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.53	--[b]	--
116-DR-6_Deep	Rad	Uranium-238	U-238	pCi/g	0.46	--[b]	--
116-DR-6_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,417	--[b]	--
116-DR-6_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.091	--[a]	--
116-DR-6_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.48	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length In Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-DR-6_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.43	9,786	No
116-DR-6_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	--[b]	--
116-DR-6_Shallow	Rad	Uranium-238	U-238	pCi/g	0.48	--[b]	--
116-DR-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,586	--[b]	--
116-DR-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.073	--[a]	--
116-DR-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--[a]	--
116-DR-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	--[b]	--
116-DR-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.12	--[b]	--
116-DR-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.51	--[b]	--
116-DR-8_Overburden_2	non-Rad	Acetone	67-64-1	ug/kg	26	--[b]	--
116-DR-8_Overburden_2	non-Rad	Antimony	7440-36-0	ug/kg	535	--[b]	--
116-DR-8_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,248	1.30E+07	No
116-DR-8_Overburden_2	non-Rad	Barium	7440-39-3	ug/kg	51,821	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	77	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	46	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	95	--[b]	--
116-DR-8_Overburden_2	non-Rad	Beryllium	7440-41-7	ug/kg	555	--[b]	--
116-DR-8_Overburden_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	347	--[b]	--
116-DR-8_Overburden_2	non-Rad	Chromium	7440-47-3	ug/kg	7,334	--[a]	--
116-DR-8_Overburden_2	non-Rad	Chrysene	218-01-9	ug/kg	110	--[b]	--
116-DR-8_Overburden_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,689	--[b]	--
116-DR-8_Overburden_2	non-Rad	Copper	7440-50-8	ug/kg	13,745	134,226	No
116-DR-8_Overburden_2	non-Rad	Fluoranthene	206-44-0	ug/kg	180	--[b]	--
116-DR-8_Overburden_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	6,000[c]	No
116-DR-8_Overburden_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--[b]	--
116-DR-8_Overburden_2	non-Rad	Lead	7439-92-1	ug/kg	3,831	--[a]	--
116-DR-8_Overburden_2	non-Rad	Lithium	7439-93-2	ug/kg	6,086	--[b]	--
116-DR-8_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	323,773	--[b]	--
116-DR-8_Overburden_2	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	--[b]	--
116-DR-8_Overburden_2	non-Rad	Nickel	7440-02-0	ug/kg	11,376	--[a]	--
116-DR-8_Overburden_2	non-Rad	Pyrene	129-00-0	ug/kg	120	--[b]	--
116-DR-8_Overburden_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	898	--[b]	--
116-DR-8_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	65,299	--[b]	--
116-DR-8_Overburden_2	non-Rad	Zinc	7440-66-6	ug/kg	47,917	--[a]	--
116-DR-8_Overburden_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.091	--[a]	--
116-DR-8_Overburden_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	979	No
116-DR-8_Overburden_2	Rad	Uranium-234	13966-29-5	pCi/g	0.28	--[b]	--
116-DR-8_Overburden_2	Rad	Uranium-238	U-238	pCi/g	0.30	--[b]	--
116-DR-8_Overburden_3	non-Rad	Acetone	67-64-1	ug/kg	8.6	--[b]	--
116-DR-8_Overburden_3	non-Rad	Antimony	7440-36-0	ug/kg	747	--[b]	--
116-DR-8_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,507	1.27E+07	No
116-DR-8_Overburden_3	non-Rad	Barium	7440-39-3	ug/kg	63,744	--[b]	--
116-DR-8_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	1,958	--[b]	--
116-DR-8_Overburden_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	133	--[b]	--
116-DR-8_Overburden_3	non-Rad	Boron	7440-42-8	ug/kg	1,274	--[b]	--
116-DR-8_Overburden_3	non-Rad	Cadmium	7440-43-9	ug/kg	78	44	Yes
116-DR-8_Overburden_3	non-Rad	Chromium	7440-47-3	ug/kg	9,365	--[a]	--
116-DR-8_Overburden_3	non-Rad	Chrysene	218-01-9	ug/kg	30	--[b]	--
116-DR-8_Overburden_3	non-Rad	Cobalt	7440-48-4	ug/kg	9,279	--[b]	--
116-DR-8_Overburden_3	non-Rad	Copper	7440-50-8	ug/kg	13,021	131,680	No
116-DR-8_Overburden_3	non-Rad	Lead	7439-92-1	ug/kg	4,813	--[a]	--
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	ug/kg	27,770	--[b]	--
116-DR-8_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	348,289	--[b]	--
116-DR-8_Overburden_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	--[b]	--
116-DR-8_Overburden_3	non-Rad	Molybdenum	7439-98-7	ug/kg	370	--[b]	--
116-DR-8_Overburden_3	non-Rad	Nickel	7440-02-0	ug/kg	11,807	--[a]	--
116-DR-8_Overburden_3	non-Rad	Pyrene	129-00-0	ug/kg	17	--[b]	--
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	2,200	594	Yes
116-DR-8_Overburden_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	478	--[b]	--
116-DR-8_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	70,346	--[b]	--
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	72,846	--[a]	--
116-DR-8_Overburden_3	Rad	Cesium-137	10045-97-3	pCi/g	0.11	--[a]	--
116-DR-8_Overburden_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	960	No
116-DR-8_Overburden_3	Rad	Uranium-234	13966-29-5	pCi/g	0.15	--[b]	--
116-DR-8_Overburden_3	Rad	Uranium-238	U-238	pCi/g	0.16	--[b]	--
116-DR-8_Shallow	non-Rad	1,2-Dichlorobenzene	95-50-1	ug/kg	26	--[b]	--
116-DR-8_Shallow	non-Rad	2,4,5-Trichlorophenol	95-95-4	ug/kg	10	--[b]	--
116-DR-8_Shallow	non-Rad	2,4-Dichlorophenol	120-83-2	ug/kg	11	--[b]	--
116-DR-8_Shallow	non-Rad	2-Chloronaphthalene	91-58-7	ug/kg	11	--[b]	--
116-DR-8_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	--[b]	--
116-DR-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	19	--[b]	--
116-DR-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	531	--[b]	--
116-DR-8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,452	1.30E+07	No
116-DR-8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	65,315	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	28	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--[b]	--
116-DR-8_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,024	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-DR-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	210	--[b]	--
116-DR-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,783	--[b]	--
116-DR-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,235	--[a]	--
116-DR-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--[b]	--
116-DR-8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,776	--[b]	--
116-DR-8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,953	134,226	No
116-DR-8_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	25	--[b]	--
116-DR-8_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	192	6,000[c]	No
116-DR-8_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--[b]	--
116-DR-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,208	--[a]	--
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	70,444	--[b]	--
116-DR-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,029	--[b]	--
116-DR-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.5	--[a]	--
116-DR-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--[b]	--
116-DR-8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	640	--[b]	--
116-DR-8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,727	--[a]	--
116-DR-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	19	--[b]	--
116-DR-8_Shallow	non-Rad	Toluene	108-88-3	ug/kg	1.1	--[b]	--
116-DR-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	585	--[b]	--
116-DR-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	64,429	--[b]	--
116-DR-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,213	--[a]	--
116-DR-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.15	--[a]	--
116-DR-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	979	No
116-DR-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.18	--[b]	--
116-DR-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20	--[b]	--
116-DR-9_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	75	--[a]	--
116-DR-9_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	123	--[a]	--
116-DR-9_Deep	non-Rad	Chromium	7440-47-3	ug/kg	20,225	--[a]	--
116-DR-9_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,100	--[a]	--
116-DR-9_Deep	Rad	Cesium-137	10045-97-3	pCi/g	11	--[a]	--
116-DR-9_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.7	--[a]	--
116-DR-9_Deep	Rad	Europium-152	14683-23-9	pCi/g	26	--[a]	--
116-DR-9_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.5	--[a]	--
116-DR-9_Deep	Rad	Nickel-63	13981-37-8	pCi/g	54	--[a]	--
116-DR-9_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.33	--[a]	--
116-DR-9_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	154	No
116-DR-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	16,093	--[a]	--
116-DR-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	6,000[c]	No
116-DR-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,838	--[a]	--
116-DR-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	10	--[a]	--
116-DR-9_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.044	--[a]	--
116-DR-9_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.43	--[a]	--
116-DR-9_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.071	--[a]	--
116-DR-9_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	5.0	--[a]	--
116-DR-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.36	--[a]	--
116-DR-9_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.72	--[a]	--
116-DR-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.26	1,468	No
118-D-1_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	5.68E+06	--[a]	--
118-D-1_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	2,356	6.48E+06	No
118-D-1_Deep	non-Rad	Barium	7440-39-3	ug/kg	59,180	--[b]	--
118-D-1_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	227	--[b]	--
118-D-1_Deep	non-Rad	Boron	7440-42-8	ug/kg	2,100	--[b]	--
118-D-1_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	56	22	Yes
118-D-1_Deep	non-Rad	Chromium	7440-47-3	ug/kg	7,521	--[a]	--
118-D-1_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	10,247	--[b]	--
118-D-1_Deep	non-Rad	Copper	7440-50-8	ug/kg	16,443	67,113	No
118-D-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	344	6,000[c]	No
118-D-1_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	6.48E+06	Yes
118-D-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,445	--[a]	--
118-D-1_Deep	non-Rad	Manganese	7439-96-5	ug/kg	312,532	--[b]	--
118-D-1_Deep	non-Rad	Mercury	7439-97-6	ug/kg	18	--[a]	--
118-D-1_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	288	--[b]	--
118-D-1_Deep	non-Rad	Nickel	7440-02-0	ug/kg	10,508	--[a]	--
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	18,960	--[b]	--
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	59,000	--[b]	--
118-D-1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,165	--[b]	--
118-D-1_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	74,430	--[b]	--
118-D-1_Deep	non-Rad	Zinc	7440-66-6	ug/kg	48,322	--[a]	--
118-D-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.10	--[a]	--
118-D-1_Deep	Rad	Tritium	10028-17-8	pCi/g	0.081	34	No
118-D-1_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.74	--[b]	--
118-D-1_Deep	Rad	Uranium-238	U-238	pCi/g	0.73	--[b]	--
118-D-1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.71E+06	--[a]	--
118-D-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,014	6.48E+06	No
118-D-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	69,918	--[b]	--
118-D-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--[b]	--
118-D-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	245	--[b]	--
118-D-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,233	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-D-1_Overburden	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	110	--[b]	--
118-D-1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	65	22	Yes
118-D-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,001	--[a]	--
118-D-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,318	--[b]	--
118-D-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,107	67,113	No
118-D-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	397	6,000[c]	No
118-D-1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.00E+07	6.48E+06	Yes
118-D-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,919	--[a]	--
118-D-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306,161	--[b]	--
118-D-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.3	--[a]	--
118-D-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	760	--[b]	--
118-D-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,640	--[a]	--
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	870	--[b]	--
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,300	--[b]	--
118-D-1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,197	--[b]	--
118-D-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50,373	--[b]	--
118-D-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,461	--[a]	--
118-D-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.080	--[a]	--
118-D-1_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.041	34	No
118-D-1_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.75	--[b]	--
118-D-1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.74	--[b]	--
118-D-1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.52E+06	--[a]	--
118-D-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,632	1.56E+07	No
118-D-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	60,015	--[b]	--
118-D-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	230	--[b]	--
118-D-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,700	--[b]	--
118-D-1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	44	54	No
118-D-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	9,458	--[a]	--
118-D-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,736	--[b]	--
118-D-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	16,752	161,071	No
118-D-1_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	6,000[c]	No
118-D-1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	1.56E+07	Yes
118-D-1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,664	--[a]	--
118-D-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	288,049	--[b]	--
118-D-1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	17	--[a]	--
118-D-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	320	--[b]	--
118-D-1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,504	--[a]	--
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,471	--[b]	--
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,642	--[b]	--
118-D-1_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,395	--[b]	--
118-D-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	59,298	--[b]	--
118-D-1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41,624	--[a]	--
118-D-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.039	--[a]	--
118-D-1_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	1.1	1.8	No
118-D-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.73	82	No
118-D-1_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.80	--[b]	--
118-D-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.80	--[b]	--
118-D-1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	7.25E+06	--[a]	--
118-D-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,467	3.40E+06	No
118-D-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	71,721	--[b]	--
118-D-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	141	--[b]	--
118-D-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,207	--[b]	--
118-D-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	72	12	Yes
118-D-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	10,857	--[a]	--
118-D-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	8,554	--[b]	--
118-D-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	16,263	35,236	No
118-D-1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	2.16E+07	3.40E+06	Yes
118-D-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	4,866	--[a]	--
118-D-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	319,582	--[b]	--
118-D-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	13	--[a]	--
118-D-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	13,106	--[a]	--
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,382	--[b]	--
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	13,056	--[b]	--
118-D-1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	729	--[b]	--
118-D-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	55,100	--[b]	--
118-D-1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	42,151	--[a]	--
118-D-1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	0.059	--[a]	--
118-D-1_Shallow_5	Rad	Tritium	10028-17-8	pCi/g	0.030	18	No
118-D-1_Shallow_5	Rad	Uranium-234	13966-29-5	pCi/g	0.20	--[b]	--
118-D-1_Shallow_5	Rad	Uranium-238	U-238	pCi/g	0.19	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.35E+06	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,600	5.56E+07	No
118-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	64,100	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	240	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	89	192	No
118-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,700	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	575,254	No

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-D-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	261	6,000[f]	No
118-D-1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	5.56E+07	No
118-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	293,000	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	11	--[d]	--
118-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,200	--[a]	--
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,000	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	5,090	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,500	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,700	--[a]	--
118-D-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.26	--[d]	--
118-D-1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.14	4,194	No
118-D-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.050	294	No
118-D-1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.5	--[b]	--
118-D-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.7	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	8.15E+06	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,695	3.40E+06	No
118-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	75,217	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	193	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,317	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10,490	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	7,233	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	19,109	35,236	No
118-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.04E+07	3.40E+06	Yes
118-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	3,614	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	284,458	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	6.0	--[e]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	310	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	12,366	--[a]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,800	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,400	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,320	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	38,513	--[a]	--
118-D-1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	0.37	--[a]	--
118-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	1.3	18	No
118-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.78	--[b]	--
118-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.78	--[b]	--
118-D-4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,133	7.64E+06	No
118-D-4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	75,116	--[b]	--
118-D-4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	277	--[b]	--
118-D-4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,546	--[b]	--
118-D-4_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	26	Yes
118-D-4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,931	--[a]	--
118-D-4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,560	--[b]	--
118-D-4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,932	79,112	No
118-D-4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,760	--[a]	--
118-D-4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	352,925	--[b]	--
118-D-4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	--[a]	--
118-D-4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	500	--[b]	--
118-D-4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	13,144	--[a]	--
118-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,797	--[b]	--
118-D-4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,686	--[b]	--
118-D-4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47,811	--[a]	--
118-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.033	--[a]	--
118-D-4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	--[b]	--
118-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.60	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-D-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	2,400	--[b]	--
118-D-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,983	7.64E+06	No
118-D-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,991	--[b]	--
118-D-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	231	--[b]	--
118-D-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,189	--[b]	--
118-D-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	398	26	Yes
118-D-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,377	--[a]	--
118-D-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,104	--[b]	--
118-D-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,592	79,112	No
118-D-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,908	--[a]	--
118-D-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	342,788	--[b]	--
118-D-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	66	--[a]	--
118-D-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	582	--[b]	--
118-D-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,565	--[a]	--
118-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,042	--[b]	--
118-D-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,969	--[b]	--
118-D-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,118	--[a]	--
118-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.38	--[a]	--
118-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--[a]	--
118-D-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--[a]	--
118-D-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.31	--[a]	--
118-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	577	No
118-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	--[b]	--
118-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.69	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	900	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	7.64E+06	No
118-D-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	77,300	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	26	Yes
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	48,100	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,000	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,500	79,112	No
118-D-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[c]	No
118-D-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,700	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	399,000	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	58	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	27,300	--[a]	--
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	5,460	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,500	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,221	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	92,400	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	59,600	--[a]	--
118-D-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	--[a]	--
118-D-4_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.45	--[a]	--
118-D-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	--[b]	--
118-D-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.75	--[b]	--
118-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	562	--[b]	--
118-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,763	1.30E+07	No
118-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	56,468	--[b]	--
118-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	655	--[b]	--
118-D-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	77	45	Yes
118-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,598	--[a]	--
118-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,245	--[b]	--
118-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	12,493	134,226	No
118-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	218	6,000[c]	No
118-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,716	--[a]	--
118-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	275,204	--[b]	--
118-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	41	--[a]	--
118-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	370	--[b]	--
118-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,132	--[a]	--
118-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50,941	--[b]	--
118-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	40,220	--[a]	--
118-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	979	No
118-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	442	--[b]	--
118-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,660	1.30E+07	No
118-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,858	--[b]	--
118-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	672	--[b]	--
118-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,500	--[b]	--
118-D-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	76	45	Yes
118-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,937	--[a]	--
118-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,628	--[b]	--
118-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	12,558	134,226	No
118-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	235	6,000[c]	No
118-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,611	--[a]	--
118-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	281,367	--[b]	--
118-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.6	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	950	--[b]	--
118-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,850	--[a]	--
118-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	--[b]	--
118-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	41,881	--[a]	--
118-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	20	--[a]	--
118-D-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	979	No
118-D-5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	440	--[b]	--
118-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	1.28E+07	No
118-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,000	--[b]	--
118-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	930	--[b]	--
118-D-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	54	44	Yes
118-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,500	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,800	--[b]	--
118-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,000	132,503	No
118-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,400	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	--[b]	--
118-D-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.1	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	320	--[b]	--
118-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,000	--[a]	--
118-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,000	--[b]	--
118-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,000	--[a]	--
118-D-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.1	--[a]	--
118-D-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	113	--[a]	--
118-D-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.15	68	No
118-D-6:4_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	6.36E+06	--[a]	--
118-D-6:4_Deep	non-Rad	Antimony	7440-36-0	ug/kg	660	--[b]	--
118-D-6:4_Deep	non-Rad	Aroclor-1254	11097-69-1	ug/kg	4.9	--[a]	--
118-D-6:4_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	1,992	3.89E+08	No
118-D-6:4_Deep	non-Rad	Barium	7440-39-3	ug/kg	67,113	--[b]	--
118-D-6:4_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	161	--[b]	--
118-D-6:4_Deep	non-Rad	Boron	7440-42-8	ug/kg	910	--[b]	--
118-D-6:4_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	570	1,343	No
118-D-6:4_Deep	non-Rad	Chromium	7440-47-3	ug/kg	29,454	--[a]	--
118-D-6:4_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	9,339	--[b]	--
118-D-6:4_Deep	non-Rad	Copper	7440-50-8	ug/kg	22,244	4.03E+06	No
118-D-6:4_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	841	6,000[c]	No
118-D-6:4_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	3.89E+08	No
118-D-6:4_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,622	--[a]	--
118-D-6:4_Deep	non-Rad	Manganese	7439-96-5	ug/kg	322,763	--[b]	--
118-D-6:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	169	--[a]	--
118-D-6:4_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	280	--[b]	--
118-D-6:4_Deep	non-Rad	Nickel	7440-02-0	ug/kg	10,843	--[a]	--
118-D-6:4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,393	--[b]	--
118-D-6:4_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	72,616	--[b]	--
118-D-6:4_Deep	non-Rad	Zinc	7440-66-6	ug/kg	49,497	--[a]	--
118-D-6:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	29	--[a]	--
118-D-6:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.6	--[a]	--
118-D-6:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	--[a]	--
118-D-6:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.99	29,357	No
118-D-6:4_Deep	Rad	Tritium	10028-17-8	pCi/g	0.026	2,057	No
118-D-6:4_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.76	--[b]	--
118-D-6:4_Deep	Rad	Uranium-238	U-238	pCi/g	0.80	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.67E+06	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	73	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,900	3.89E+08	No
118-D-6:4_Deep_Focused	non-Rad	Barium	7440-39-3	ug/kg	91,400	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	380	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,600	1,343	Yes
118-D-6:4_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	64,800	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	56,600	4.03E+06	No
118-D-6:4_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,640	6,000[c]	No
118-D-6:4_Deep_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.84E+07	3.89E+08	No
118-D-6:4_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,500	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Manganese	7439-96-5	ug/kg	356,000	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	380	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	290	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	--[a]	--
118-D-6:4_Deep_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,855	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,800	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	148,000	--[a]	--
118-D-6:4_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.29	--[a]	--
118-D-6:4_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	85	--[a]	--
118-D-6:4_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.63	--[a]	--
118-D-6:4_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	17	--[a]	--
118-D-6:4_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.0	--[a]	--
118-D-6:4_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	37	--[a]	--
118-D-6:4_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.3	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-D-6:4_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	29,357	No
118-D-6:4_Deep_Focused	Rad	Tritium	10028-17-8	pCi/g	0.056	2,057	No
118-D-6:4_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.2	--[b]	--
118-D-6:4_Deep_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.27	--[b]	--
118-D-6:4_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	0.92	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.55E+06	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.9	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,091	3.89E+08	No
118-D-6:4_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	62,434	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	247	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,800	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	95	1,343	No
118-D-6:4_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,251	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,140	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,162	4.03E+06	No
118-D-6:4_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	403	6,000[c]	No
118-D-6:4_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.62E+07	3.89E+08	No
118-D-6:4_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	13,267	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	323,193	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	31	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	312	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,531	--[a]	--
118-D-6:4_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	630	18,173	No
118-D-6:4_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,982	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	77,927	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	49,762	--[a]	--
118-D-6:4_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.071	--[a]	--
118-D-6:4_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.034	2,057	No
118-D-6:4_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.66	--[b]	--
118-D-6:4_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.67	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	21	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.8	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,057	3.89E+08	No
118-D-6:4_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	67,362	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	274	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	62	1,343	No
118-D-6:4_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,050	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,093	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	21,766	4.03E+06	No
118-D-6:4_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	559	6,000[c]	No
118-D-6:4_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.40E+07	3.89E+08	No
118-D-6:4_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5,072	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	328,312	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1,200	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	285	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,571	--[a]	--
118-D-6:4_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,344	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	68,233	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	46,961	--[a]	--
118-D-6:4_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.9	--[a]	--
118-D-6:4_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	1.4	--[a]	--
118-D-6:4_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.21	--[a]	--
118-D-6:4_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	29,357	No
118-D-6:4_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0.073	2,057	No
118-D-6:4_Shallow_2	Rad	Uranium-234	13966-29-5	pCi/g	0.93	--[b]	--
118-D-6:4_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.1	--[b]	--
118-DR-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	--[a]	--
118-DR-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,230	1.77E+07	No
118-DR-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56,291	--[b]	--
118-DR-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,045	--[b]	--
118-DR-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,226	--[b]	--
118-DR-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	58	61	No
118-DR-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,080	--[a]	--
118-DR-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,720	--[b]	--
118-DR-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,464	183,035	No
118-DR-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	248	6,000[c]	No
118-DR-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,014	--[a]	--
118-DR-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284,561	--[b]	--
118-DR-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.2	--[a]	--
118-DR-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,930	--[a]	--
118-DR-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,964	--[b]	--
118-DR-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	41,444	--[a]	--
118-DR-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.11	--[a]	--
118-DR-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.77	--[a]	--
118-DR-1_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	124	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.70E+06	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,500	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-DR-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	1.30E+07	No
118-DR-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,000	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	480	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	79	45	Yes
118-DR-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,300	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,000	134,226	No
118-DR-1_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	0.49	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,700	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.4	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	--[a]	--
118-DR-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54,000	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,000	--[a]	--
118-DR-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.050	--[a]	--
118-DR-1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	9.7	--[a]	--
118-DR-2:2_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	512	--[a]	--
118-DR-2:2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,713	--[a]	--
118-DR-2:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	6,000[c]	No
118-DR-2:2_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,500	--[a]	--
118-DR-2:2_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	--[a]	--
118-DR-2:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,166	--[b]	--
118-DR-2:2_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.12	--[a]	--
118-DR-2:2_Deep	Rad	Carbon-14	14762-75-5	pCi/g	9.4	--[a]	--
118-DR-2:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	12	--[a]	--
118-DR-2:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	4.3	--[a]	--
118-DR-2:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.8	--[a]	--
118-DR-2:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.94	--[a]	--
118-DR-2:2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	47	--[a]	--
118-DR-2:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.2	--[a]	--
118-DR-2:2_Deep	Rad	Technetium-99	14133-76-7	pCi/g	1.1	3.3	No
118-DR-2:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.46	--[b]	--
118-DR-2:2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.079	--[b]	--
118-DR-2:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.39	--[b]	--
118-DR-2:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	34	--[a]	--
118-DR-2:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	3.54E+07	No
118-DR-2:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,900	--[b]	--
118-DR-2:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,700	--[a]	--
118-DR-2:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	699	6,000[c]	No
118-DR-2:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,112	--[a]	--
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164	--[a]	--
118-DR-2:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,474	--[b]	--
118-DR-2:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.51	--[a]	--
118-DR-2:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	--[a]	--
118-DR-2:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.45	--[a]	--
118-DR-2:2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.8	--[a]	--
118-DR-2:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.18	--[a]	--
118-DR-2:2_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	2.4	4.1	No
118-DR-2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.88	2,669	No
118-DR-2:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	--[b]	--
118-DR-2:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	--[b]	--
120-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	720	--[b]	--
120-D-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,310	1.39E+07	No
120-D-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	73,265	--[b]	--
120-D-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	251	--[b]	--
120-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,704	--[b]	--
120-D-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	117	48	Yes
120-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,075	--[a]	--
120-D-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,385	--[b]	--
120-D-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,512	143,814	No
120-D-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	6,000[c]	No
120-D-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,162	--[a]	--
120-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	339,488	--[b]	--
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	111	--[a]	--
120-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	605	--[b]	--
120-D-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,826	--[a]	--
120-D-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	9,910	--[b]	--
120-D-2_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	554	--[b]	--
120-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	77,181	--[b]	--
120-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,904	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	1.39E+07	No
120-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	61,900	--[b]	--
120-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	310	--[b]	--
120-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	--[b]	--
120-D-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160	48	Yes
120-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	4,500	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
120-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,300	--[b]	--
120-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	143,814	No
120-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,700	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	316,000	--[b]	--
120-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	560	--[b]	--
120-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,800	--[a]	--
120-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	80,200	--[b]	--
120-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,800	--[a]	--
122-DR-1:2_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	7.94E+06	No
122-DR-1:2_Deep	non-Rad	Barium	7440-39-3	ug/kg	58,500	--[b]	--
122-DR-1:2_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--[b]	--
122-DR-1:2_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	150	--[b]	--
122-DR-1:2_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	210	27	Yes
122-DR-1:2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,700	--[a]	--
122-DR-1:2_Deep	non-Rad	Chrysene	218-01-9	ug/kg	22	--[b]	--
122-DR-1:2_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	49	--[b]	--
122-DR-1:2_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,200	--[a]	--
122-DR-1:2_Deep	non-Rad	Lithium	7439-93-2	ug/kg	10,000	--[b]	--
122-DR-1:2_Deep	non-Rad	Pyrene	129-00-0	ug/kg	51	--[b]	--
122-DR-1:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,926	--[b]	--
122-DR-1:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.049	--[a]	--
122-DR-1:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	--[b]	--
122-DR-1:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.65	--[b]	--
122-DR-1:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	7.94E+06	No
122-DR-1:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,900	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	66	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	36	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--[b]	--
122-DR-1:2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
122-DR-1:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	190	27	Yes
122-DR-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,900	--[a]	--
122-DR-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	55	--[b]	--
122-DR-1:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	19	--[b]	--
122-DR-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	110	--[b]	--
122-DR-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,400	--[a]	--
122-DR-1:2_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	12,500	--[b]	--
122-DR-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
122-DR-1:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,941	--[b]	--
122-DR-1:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.063	--[a]	--
122-DR-1:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	--[b]	--
122-DR-1:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	--[b]	--
126-D-2_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.2	--[b]	--
126-D-2_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--[a]	--
126-D-2_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	--[b]	--
126-D-2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,644	2.36E+06	No
126-D-2_Overburden	non-Rad	Barium	7440-39-3	ug/kg	81,680	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.8	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	10	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.0	--[b]	--
126-D-2_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	802	--[b]	--
126-D-2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,077	--[b]	--
126-D-2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,899	--[a]	--
126-D-2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	16	--[b]	--
126-D-2_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,810	--[b]	--
126-D-2_Overburden	non-Rad	Copper	7440-50-8	ug/kg	12,860	24,405	No
126-D-2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	16	--[b]	--
126-D-2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,586	--[a]	--
126-D-2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,316	--[b]	--
126-D-2_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	9.4	--[a]	--
126-D-2_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	334	--[b]	--
126-D-2_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,525	--[a]	--
126-D-2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	27	--[b]	--
126-D-2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	61,720	--[b]	--
126-D-2_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	41,994	--[a]	--
126-D-2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	7.2	--[b]	--
126-D-2_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	95	--[a]	--
126-D-2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.57	--[a]	--
126-D-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	13	--[b]	--
126-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	577	--[b]	--
126-D-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.3	--[a]	--
126-D-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,826	2.36E+06	No
126-D-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	86,325	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	14	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	23	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
126-D-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	761	--[b]	--
126-D-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	188	--[b]	--
126-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,042	--[b]	--
126-D-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	43	8.1	Yes
126-D-2_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.45	--[a]	--
126-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,872	--[a]	--
126-D-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	38	--[b]	--
126-D-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,752	--[b]	--
126-D-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,151	24,405	No
126-D-2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--[b]	--
126-D-2_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	0.42	17	No
126-D-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	58	--[b]	--
126-D-2_Shallow	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	7.8	--[a]	--
126-D-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.0	--[b]	--
126-D-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,229	--[a]	--
126-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	354,940	--[b]	--
126-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	17	--[a]	--
126-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	317	--[b]	--
126-D-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	14	--[b]	--
126-D-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,613	--[a]	--
126-D-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	37	--[b]	--
126-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	78,289	--[b]	--
126-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,412	--[a]	--
126-D-2_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	92	--[b]	--
126-D-2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	--[b]	--
126-D-2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	75	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	240	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	9.2	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	620	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.0	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,000	2.36E+06	No
126-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	120,000	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	35	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	35	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	630	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,280	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	7,900	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Chlordane	57-74-9	ug/kg	0.31	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	23	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,000	24,405	No
126-D-2_Shallow_Focused	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.39	0.57	No
126-D-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	221	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	63	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	5.8	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	72,000	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	23	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	0.86	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	330	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	105	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	--[a]	--
126-D-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	64	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	69,000	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	160,000	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,000	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	50,000	--[a]	--
128-D-2_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.51	--[b]	--
128-D-2_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	9.2	--[b]	--
128-D-2_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.20E+06	--[a]	--
128-D-2_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	36	--[a]	--
128-D-2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,904	1.79E+06	No
128-D-2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	82,983	--[b]	--
128-D-2_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	77	--[b]	--
128-D-2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--[b]	--
128-D-2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	205	--[b]	--
128-D-2_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	81	--[b]	--
128-D-2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,817	--[b]	--
128-D-2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	59	6.2	Yes
128-D-2_Shallow_1	non-Rad	Chloroform	67-66-3	ug/kg	0.87	--[b]	--
128-D-2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,003	--[a]	--
128-D-2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,525	--[b]	--
128-D-2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,094	18,532	No
128-D-2_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	400	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
128-D-2_Shallow_1	non-Rad	Ethylbenzene	100-41-4	ug/kg	0.64	--[b]	--
128-D-2_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	1.79E+06	Yes
128-D-2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,793	--[a]	--
128-D-2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	341,770	--[b]	--
128-D-2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	41	--[a]	--
128-D-2_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.1	--[b]	--
128-D-2_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	310	--[b]	--
128-D-2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,887	--[a]	--
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,100	92	Yes
128-D-2_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	1.4	--[b]	--
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,691	--[b]	--
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	16,599	--[b]	--
128-D-2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	53,369	--[b]	--
128-D-2_Shallow_1	non-Rad	Xylenes (total)	1330-20-7	ug/kg	2.7	--[b]	--
128-D-2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	45,366	--[a]	--
128-D-2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.24	--[a]	--
128-D-2_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	--[b]	--
128-D-2_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	5.67E+06	--[a]	--
128-D-2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,318	6.48E+06	No
128-D-2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	62,231	--[b]	--
128-D-2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	147	--[b]	--
128-D-2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,200	--[b]	--
128-D-2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	132	22	Yes
128-D-2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,153	--[a]	--
128-D-2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,447	--[b]	--
128-D-2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,949	67,113	No
128-D-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	6,000	No
128-D-2_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.86E+07	6.48E+06	Yes
128-D-2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,494	--[a]	--
128-D-2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	277,702	--[b]	--
128-D-2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	18	--[a]	--
128-D-2_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
128-D-2_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	263	--[b]	--
128-D-2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,947	--[a]	--
128-D-2_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	190	303	No
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,500	--[b]	--
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,300	--[b]	--
128-D-2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	--[b]	--
128-D-2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36,765	--[a]	--
128-D-2_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.24	489	No
130-D-1_Shallow	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	0.88	--[b]	--
130-D-1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--[b]	--
130-D-1_Shallow	non-Rad	Acetone	67-64-1	ug/kg	13	--[b]	--
130-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.59E+06	--[a]	--
130-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	24	--[a]	--
130-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,031	3.88E+07	No
130-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	72,121	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	16	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	69	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--[b]	--
130-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	51	--[b]	--
130-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,642	--[b]	--
130-D-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	81	134	No
130-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,452	--[a]	--
130-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	43	--[b]	--
130-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,789	--[b]	--
130-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,835	401,874	No
130-D-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	63	--[b]	--
130-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	3.88E+07	No
130-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,060	--[a]	--
130-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	306,041	--[b]	--
130-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	11	--[a]	--
130-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--[b]	--
130-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	273	--[b]	--
130-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,744	--[a]	--
130-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	56	--[b]	--
130-D-1_Shallow	non-Rad	Toluene	108-88-3	ug/kg	2.7	--[b]	--
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,333	--[b]	--
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	9,898	--[b]	--
130-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	51,859	--[b]	--
130-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,218	--[a]	--
130-D-1_Shallow_Focused	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.9	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.68E+06	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,600	3.88E+07	No
130-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,600	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
130-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	73	134	No
130-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,200	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,400	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,800	401,874	No
130-D-1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.50E+07	3.88E+07	No
130-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,200	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	305,000	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.2	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	280	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,100	--[a]	--
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	64,000	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	110,000	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	82,200	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,900	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.0	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	1.09E+07	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,871	3.88E+07	No
130-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	102,565	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	142	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,900	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2,148	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	128	134	No
130-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	13,222	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	29	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	8,624	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	18,874	401,874	No
130-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	45	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	3.88E+07	No
130-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	7,527	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	379,422	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	10	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	300	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	14,522	--[a]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,162	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	18,492	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43,839	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	45,473	--[a]	--
132-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.09E+06	--[a]	--
132-D-1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	6.3	--[a]	--
132-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	230	--[a]	--
132-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,758	1.30E+07	No
132-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,595	--[b]	--
132-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.0	--[b]	--
132-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--[b]	--
132-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,150	--[b]	--
132-D-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	62	45	Yes
132-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,667	--[a]	--
132-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.9	--[b]	--
132-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,535	--[b]	--
132-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,707	134,226	No
132-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	164	6,000	No
132-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.51E+07	1.30E+07	Yes
132-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,177	--[a]	--
132-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	314,188	--[b]	--
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1,000	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
132-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	580	--[b]	--
132-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,451	--[a]	--
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	860	669	Yes
132-D-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,092	--[b]	--
132-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,877	--[b]	--
132-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,502	--[a]	--
132-D-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--[a]	--
132-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.14	--[a]	--
132-D-1_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.84	69	No
132-D-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.23	--[b]	--
132-D-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.22	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.07E+06	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	39	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	35	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	18	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,513	9.15E+06	No
132-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	65,825	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	225	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	174	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	161	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	59	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	49	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,225	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	91	32	Yes
132-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,496	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	193	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	9,154	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	16,081	94,748	No
132-D-1_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	54	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	44	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	402	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	68	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	6,000[c]	No
132-D-1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	9.15E+06	Yes
132-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	6,740	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	299,873	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	680	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	240	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,761	--[a]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	439	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	481	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	57,749	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	48,544	--[a]	--
132-D-1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.59	--[a]	--
132-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	0.065	48	No

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
132-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.21	--[b]	--
132-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.19	--[b]	--
1607-D1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.99E+06	--[a]	--
1607-D1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,396	7.94E+06	No
1607-D1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64,671	--[b]	--
1607-D1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	228	--[b]	--
1607-D1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--[b]	--
1607-D1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,325	--[b]	--
1607-D1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	79	27	Yes
1607-D1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,828	--[a]	--
1607-D1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	5,717	--[b]	--
1607-D1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,881	82,179	No
1607-D1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.64E+07	7.94E+06	Yes
1607-D1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,020	--[a]	--
1607-D1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	273,291	--[b]	--
1607-D1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	6.7	--[a]	--
1607-D1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,264	--[a]	--
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,367	--[b]	--
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,650	--[b]	--
1607-D1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	38,625	--[b]	--
1607-D1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	35,700	--[a]	--
1607-D1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.64E+06	--[a]	--
1607-D1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,837	7.94E+06	No
1607-D1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	67,938	--[b]	--
1607-D1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	245	--[b]	--
1607-D1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,248	--[b]	--
1607-D1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	78	27	Yes
1607-D1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	13,336	--[a]	--
1607-D1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,679	--[b]	--
1607-D1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,123	82,179	No
1607-D1_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	990	--[b]	--
1607-D1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.63E+07	7.94E+06	Yes
1607-D1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,186	--[a]	--
1607-D1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	282,971	--[b]	--
1607-D1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	8.0	--[a]	--
1607-D1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,792	--[a]	--
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	940	--[b]	--
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,444	--[b]	--
1607-D1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	37,046	--[b]	--
1607-D1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	35,077	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.32E+06	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,400	7.94E+06	No
1607-D1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	84,000	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	240	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	86	27	Yes
1607-D1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,400	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,300	82,179	No
1607-D1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.53E+07	7.94E+06	Yes
1607-D1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,000	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273,000	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	18	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,900	--[a]	--
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,500	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,600	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34,500	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	34,200	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	7.18E+06	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,159	7.94E+06	No
1607-D1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	61,878	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	224	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	77	27	Yes
1607-D1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	11,971	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,119	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	13,304	82,179	No

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
1607-D1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	7.94E+06	Yes
1607-D1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	4,179	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	268,018	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	15	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	260	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	11,512	--[a]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	4,900	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,226	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	39,210	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	34,383	--[a]	--
1607-D2-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,100	7.94E+06	No
1607-D2-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,400	--[b]	--
1607-D2-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,900	--[a]	--
1607-D2-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1,900	--[a]	--
1607-D2-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,268	--[b]	--
1607-D2-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.050	--[a]	--
1607-D2-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	--[a]	--
1607-D2-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.38	--[a]	--
1607-D2-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.67	--[b]	--
1607-D2-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.046	--[b]	--
1607-D2-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.76	--[b]	--
1607-D2-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,211	--[b]	--
1607-D2-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	447	--[a]	--
1607-D2-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	157	--[a]	--
1607-D2-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,481	3.89E+08	No
1607-D2-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	249,126	--[b]	--
1607-D2-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	343	--[b]	--
1607-D2-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,842	--[b]	--
1607-D2-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	378	1,343	No
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,771	--[a]	--
1607-D2-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,840	--[b]	--
1607-D2-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	25,777	4.03E+06	No
1607-D2-2_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,700	--[b]	--
1607-D2-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	6,000[c]	No
1607-D2-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,699	--[a]	--
1607-D2-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	344,089	--[b]	--
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	484	--[a]	--
1607-D2-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	643	--[b]	--
1607-D2-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13,309	--[a]	--
1607-D2-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	204,415	--[b]	--
1607-D2-2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	55,960	--[b]	--
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	11,800	18,173	No
1607-D2-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,789	--[b]	--
1607-D2-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	68,020	--[b]	--
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	91,971	--[a]	--
1607-D2-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.35	--[a]	--
1607-D2-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.86	--[b]	--
1607-D2-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.94	--[b]	--
1607-D2-3_Overburden	non-Rad	Barium	7440-39-3	ug/kg	55,845	--[b]	--
1607-D2-3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,597	--[a]	--
1607-D2-3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	5,700	--[a]	--
1607-D2-3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.17	--[a]	--
1607-D2-3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.075	--[a]	--
1607-D2-3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.60	--[a]	--
1607-D2-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88,075	--[b]	--
1607-D2-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	25	--[b]	--
1607-D2-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,576	--[a]	--
1607-D2-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,939	--[a]	--
1607-D2-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	31	--[a]	--
1607-D2-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.050	--[a]	--
1607-D2-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--[a]	--
1607-D2-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,300	--[b]	--
1607-D2-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,100	--[a]	--
1607-D2-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,000	--[a]	--
1607-D2-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,340	--[b]	--
1607-D2-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.037	--[a]	--
1607-D2-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.53	--[b]	--
1607-D2-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.45	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	3.19E+08	No
1607-D4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	41,900	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
1607-D4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	900	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	100	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	350	1,101	No
1607-D4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,400	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,700	3.30E+06	No
1607-D4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	60	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,600	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	269,000	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	280	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,100	--[a]	--
1607-D4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	2,460	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	715	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1.6	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54,500	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	38,100	--[a]	--
1607-D5_Shallow	non-Rad	2,4-Dinitrophenol	51-28-5	ug/kg	370	--[b]	--
1607-D5_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	34	--[b]	--
1607-D5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--[b]	--
1607-D5_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	4.0	--[a]	--
1607-D5_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.80	--[a]	--
1607-D5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.20E+07	--[a]	--
1607-D5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	163	--[b]	--
1607-D5_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	12	--[a]	--
1607-D5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,558	3.19E+08	No
1607-D5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	775,391	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,962	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	405	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	449	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	253	--[b]	--
1607-D5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	493	--[b]	--
1607-D5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	69,503	--[b]	--
1607-D5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	97	1,101	No
1607-D5_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	48	--[b]	--
1607-D5_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.2	--[a]	--
1607-D5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,673	--[a]	--
1607-D5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	779	--[b]	--
1607-D5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,198	--[b]	--
1607-D5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	31,565	3.30E+06	No
1607-D5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	99	--[b]	--
1607-D5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,925	--[b]	--
1607-D5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	125	--[b]	--
1607-D5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	160	--[b]	--
1607-D5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.40E+07	3.19E+08	No
1607-D5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	106,537	--[a]	--
1607-D5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330,505	--[b]	--
1607-D5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	25	--[a]	--
1607-D5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,201	--[b]	--
1607-D5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	14,373	--[a]	--
1607-D5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,855	--[b]	--
1607-D5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,528	--[b]	--
1607-D5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2,647	--[b]	--
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	21,904	--[b]	--
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	37,994	--[b]	--
1607-D5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,779	--[b]	--
1607-D5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,033	--[a]	--
600-30_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.55E+06	--[a]	--
600-30_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,263	1.95E+06	No
600-30_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	89,130	--[b]	--
600-30_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	292	--[b]	--
600-30_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	408	--[b]	--
600-30_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,431	--[b]	--
600-30_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	109	6.7	Yes
600-30_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,154	--[a]	--
600-30_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,887	--[b]	--
600-30_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,226	20,134	No
600-30_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	230	6,000	No
600-30_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	1.95E+06	Yes
600-30_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,711	--[a]	--
600-30_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	360,369	--[b]	--
600-30_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	386	--[b]	--
600-30_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,429	--[a]	--
600-30_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	6,410	--[b]	--
600-30_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	49,219	--[b]	--
600-30_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	43,816	--[a]	--
600-30_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.79E+06	--[a]	--
600-30_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,242	7.78E+06	No

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
600-30_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	85,373	--[b]	--
600-30_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	105	--[b]	--
600-30_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	101	--[b]	--
600-30_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,525	--[b]	--
600-30_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	103	27	Yes
600-30_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,014	--[a]	--
600-30_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,145	--[b]	--
600-30_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	17,330	80,536	No
600-30_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	294	6,000[c]	No
600-30_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.24E+07	7.78E+06	Yes
600-30_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,021	--[a]	--
600-30_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	351,748	--[b]	--
600-30_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	6.5	--[a]	--
600-30_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	390	--[b]	--
600-30_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	12,530	--[a]	--
600-30_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	170	363	No
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	820	--[b]	--
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,275	--[b]	--
600-30_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	57,064	--[b]	--
600-30_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	43,114	--[a]	--
600-30_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	6.93E+06	--[a]	--
600-30_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	430	--[b]	--
600-30_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,866	3.24E+07	No
600-30_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	64,907	--[b]	--
600-30_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	66	--[b]	--
600-30_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--[b]	--
600-30_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,700	--[b]	--
600-30_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	67	112	No
600-30_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	7,708	--[a]	--
600-30_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	10,660	--[b]	--
600-30_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	18,099	335,565	No
600-30_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	210	6,000[c]	No
600-30_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	3.24E+07	No
600-30_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	7,862	--[a]	--
600-30_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	346,688	--[b]	--
600-30_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	6.4	--[a]	--
600-30_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	243	--[b]	--
600-30_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,270	--[a]	--
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,643	--[b]	--
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,600	--[b]	--
600-30_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	67,222	--[b]	--
600-30_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,856	--[a]	--
600-30_Shallow_Focused	non-Rad	Aldrin	309-00-2	ug/kg	1.7	--[a]	--
600-30_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.39E+06	--[a]	--
600-30_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	349	--[b]	--
600-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,590	5.19E+06	No
600-30_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99,100	--[b]	--
600-30_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	319	--[b]	--
600-30_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,460	--[b]	--
600-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	134	18	Yes
600-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	--[a]	--
600-30_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,300	--[b]	--
600-30_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,300	53,690	No
600-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	270	6,000[c]	No
600-30_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.34E+07	5.19E+06	Yes
600-30_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,800	--[a]	--
600-30_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	382,000	--[b]	--
600-30_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	396	--[b]	--
600-30_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,700	--[a]	--
600-30_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	52,500	--[b]	--
600-30_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,200	--[b]	--
600-30_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,600	--[a]	--
628-3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--[b]	--
628-3_Shallow	non-Rad	Aldrin	309-00-2	ug/kg	1.5	--[a]	--
628-3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.13E+06	--[a]	--
628-3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3,150	--[b]	--
628-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,521	3.11E+06	No
628-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57,199	--[b]	--
628-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
628-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.7	--[b]	--
628-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.3	--[b]	--
628-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.1	--[b]	--
628-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	193	--[b]	--
628-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,771	--[b]	--
628-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	136	11	Yes
628-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,406	--[a]	--
628-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.5	--[b]	--
628-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,637	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
628-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,747	32,542	No
628-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--[b]	--
628-3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.6	--[b]	--
628-3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.14E+06	Yes
628-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,972	--[a]	--
628-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284,235	--[b]	--
628-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	165	--[a]	--
628-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	372	--[b]	--
628-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,674	--[a]	--
628-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	3.6	--[b]	--
628-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,961	--[b]	--
628-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,113	--[b]	--
628-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,721	--[a]	--
628-3_Staging Pile Area_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.4	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.4	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Anthracene	120-12-7	ug/kg	8.6	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	13	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.1	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,870	3.14E+06	No
628-3_Staging Pile Area_2	non-Rad	Barium	7440-39-3	ug/kg	78,503	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.9	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.3	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Beryllium	7440-41-7	ug/kg	255	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Boron	7440-42-8	ug/kg	2,112	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Cadmium	7440-43-9	ug/kg	163	11	Yes
628-3_Staging Pile Area_2	non-Rad	Chromium	7440-47-3	ug/kg	12,445	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Chrysene	218-01-9	ug/kg	6.7	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,062	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Copper	7440-50-8	ug/kg	15,226	32,542	No
628-3_Staging Pile Area_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.0	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Fluoranthene	206-44-0	ug/kg	35	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Iron	7439-89-6	ug/kg	2.17E+07	3.14E+06	Yes
628-3_Staging Pile Area_2	non-Rad	Lead	7439-92-1	ug/kg	7,650	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Manganese	7439-96-5	ug/kg	323,863	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	ug/kg	113	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Molybdenum	7439-98-7	ug/kg	421	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Nickel	7440-02-0	ug/kg	10,261	--[a]	--
628-3_Staging Pile Area_2	non-Rad	Pyrene	129-00-0	ug/kg	11	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,200	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,900	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,486	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Vanadium	7440-62-2	ug/kg	55,454	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Zinc	7440-66-6	ug/kg	48,319	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Aluminum	7429-90-5	ug/kg	6.90E+06	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,494	3.14E+06	No
628-3_Staging Pile Area_3	non-Rad	Barium	7440-39-3	ug/kg	74,014	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.8	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.6	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Beryllium	7440-41-7	ug/kg	234	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Boron	7440-42-8	ug/kg	2,241	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Cadmium	7440-43-9	ug/kg	166	11	Yes
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	ug/kg	41,154	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Chrysene	218-01-9	ug/kg	1.9	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,463	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Copper	7440-50-8	ug/kg	18,417	32,542	No
628-3_Staging Pile Area_3	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.14E+06	Yes
628-3_Staging Pile Area_3	non-Rad	Lead	7439-92-1	ug/kg	13,526	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Manganese	7439-96-5	ug/kg	328,755	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Mercury	7439-97-6	ug/kg	30	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Molybdenum	7439-98-7	ug/kg	474	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Nickel	7440-02-0	ug/kg	9,872	--[a]	--
628-3_Staging Pile Area_3	non-Rad	Pyrene	129-00-0	ug/kg	3.0	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,203	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Vanadium	7440-62-2	ug/kg	58,456	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Zinc	7440-66-6	ug/kg	54,972	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.5	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.93E+06	--[a]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
628-3_Staging Pile Area_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	3.14E+06	No
628-3_Staging Pile Area_Focused	non-Rad	Barium	7440-39-3	ug/kg	109,000	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.4	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.8	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.3	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	298	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,500	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	189	11	Yes
628-3_Staging Pile Area_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,000	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Chrysene	218-01-9	ug/kg	3.4	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,420	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,700	32,542	No
628-3_Staging Pile Area_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	26	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.9	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.16E+07	3.14E+06	Yes
628-3_Staging Pile Area_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,500	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Manganese	7439-96-5	ug/kg	363,000	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	353	--[g]	--
628-3_Staging Pile Area_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	--[a]	--
628-3_Staging Pile Area_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.5	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	20,300	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,400	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,400	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	485	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	4.3	--[e]	--
UPR-100-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,640	2.46E+07	No
UPR-100-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	78,785	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	178	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,085	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,103	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,238	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,771	254,859	No
UPR-100-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	6,000[c]	No
UPR-100-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,643	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	397,997	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	389	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	8,772	--[a]	--
UPR-100-D-5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	236	1,271	No
UPR-100-D-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	190	1,150	No
UPR-100-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,866	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,616	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,265	--[a]	--
UPR-100-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.066	--[a]	--
UPR-100-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	1,858	No
UPR-100-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[b]	--
UPR-100-D-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.039	--[b]	--
UPR-100-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.54	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	370	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,612	2.46E+07	No
UPR-100-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	64,474	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	194	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,067	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,861	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,229	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,439	254,859	No
UPR-100-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[c]	No
UPR-100-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,748	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,220	--[b]	--

Table 7-2. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
UPR-100-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	332	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,158	--[a]	--
UPR-100-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	170	1,150	No
UPR-100-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,579	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,393	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,676	--[a]	--
UPR-100-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.074	--[a]	--
UPR-100-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.49	--[b]	--
UPR-100-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,110	2.46E+07	No
UPR-100-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	50,200	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	146	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	744	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,560	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,240	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,800	254,859	No
UPR-100-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,200	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	254,000	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	330	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	--[a]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,151	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	60,100	--[b]	--
UPR-100-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,600	--[a]	--
UPR-100-D-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.41	--[b]	--
UPR-100-D-5_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.030	--[b]	--
UPR-100-D-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.38	--[b]	--

Notes:

than one of the set of representative stratigraphic columns, where breakthrough is defined as a mass concentration exceeding 0.0001 µg/L for nonradionuclides or an activity concentration exceeding 0.0001 pCi/L for radionuclides.

b. A soil screening level is not calculated because a surface water cleanup level or surface water standard is not available for the analyte.

-- = Not applicable or no value.

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.92E+06	1.18E+07	No
100-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,027	20,000	No
100-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,985	132,000	No
100-D-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	202	1,510	No
100-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,100	3,890	No
100-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,135	18,500	No
100-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,617	15,700	No
100-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	20,107	22,000	No
100-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	417	--	--
100-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.34E+07	3.26E+07	No
100-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,961	10,200	No
100-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,021	512,000	No
100-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.3	13	No
100-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.4	--	--
100-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	350	470	No
100-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,343	19,100	No
100-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	17	--	--
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,187	--	--
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	43,478	--	--
100-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,051	85,100	No
100-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,845	67,800	No
100-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.079	1.1	No
100-D-13_Shallow_Focused	non-Rad	2-(2-methyl-4-chlorophenoxy) propionic acid	93-65-2	ug/kg	2,000	--	--
100-D-13_Shallow_Focused	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	ug/kg	11	--	--
100-D-13_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyitrichloroethane)	50-29-3	ug/kg	0.66	--	--
100-D-13_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.10E+06	1.18E+07	No
100-D-13_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	20,000	No
100-D-13_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,600	132,000	No
100-D-13_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	1,000	1,510	No
100-D-13_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	--	--
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,900	3,890	Yes
100-D-13_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	66	563	No
100-D-13_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,900	18,500	No
100-D-13_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,000	15,700	No
100-D-13_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	22,000	No
100-D-13_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	64	--	--
100-D-13_Shallow_Focused	non-Rad	Dinoseb(2-secButyl-4,6-dInitrophenol)	88-85-7	ug/kg	3.0	--	--
100-D-13_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,400	2,810	No
100-D-13_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.91E+07	3.26E+07	No
100-D-13_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,300	10,200	No
100-D-13_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	512,000	No
100-D-13_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	14	13	Yes
100-D-13_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	470	Yes
100-D-13_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,000	19,100	No
100-D-13_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	27,500	52,000	No
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	--	--
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,700	--	--
100-D-13_Shallow_Focused	non-Rad	Phenol	108-95-2	ug/kg	22	--	--
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	780	Yes
100-D-13_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,600	--	--
100-D-13_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1,500	3,210	No
100-D-13_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,400	85,100	No
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	122,000	67,800	Yes
100-D-13_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.20	1.1	No
100-D-13_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.097	1.1	No
100-D-13_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.18	1.1	No
100-D-15_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.32E+06	1.18E+07	No
100-D-15_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.4	--	--
100-D-15_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--	--
100-D-15_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,199	20,000	No
100-D-15_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64,053	132,000	No
100-D-15_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	191	1,510	No
100-D-15_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,510	3,890	No
100-D-15_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	62	563	No
100-D-15_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,801	18,500	No
100-D-15_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,698	15,700	No
100-D-15_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,273	22,000	No
100-D-15_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	130	--	--
100-D-15_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No
100-D-15_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,546	10,200	No
100-D-15_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	277,857	512,000	No
100-D-15_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	29	13	Yes
100-D-15_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	380	470	No
100-D-15_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,447	19,100	No
100-D-15_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,272	--	--
100-D-15_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	85,100	No
100-D-15_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	39,833	67,800	No
100-D-15_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	3.6	--	--
100-D-15_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.7	--	--
100-D-15_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.78E+06	1.18E+07	No
100-D-15_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,025	20,000	No
100-D-15_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	84,309	132,000	No
100-D-15_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	270	1,510	No
100-D-15_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	427	--	--
100-D-15_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,652	3,890	No
100-D-15_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	965	563	Yes
100-D-15_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	14,486	18,500	No
100-D-15_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,880	15,700	No
100-D-15_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	20,641	22,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-15_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	173	--	--
100-D-15_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.28E+07	3.26E+07	No
100-D-15_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	7,175	10,200	No
100-D-15_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	326,395	512,000	No
100-D-15_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	25	13	Yes
100-D-15_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	553	470	Yes
100-D-15_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	13,099	19,100	No
100-D-15_Shallow_2	non-Rad	Selenium	7782-49-2	ug/kg	477	780	No
100-D-15_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	32,560	--	--
100-D-15_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,475	85,100	No
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	92,810	67,800	Yes
100-D-18_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2,600	--	--
100-D-18_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,920	3,210	No
100-D-18_Deep	Rad	Cesium-137	10045-97-3	pCi/g	18	1.1	Yes
100-D-18_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	0.0084	Yes
100-D-18_Deep	Rad	Europium-152	14683-23-9	pCi/g	9.8	--	--
100-D-18_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	0.033	Yes
100-D-18_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	0.025	Yes
100-D-18_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	0.18	Yes
100-D-18_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.1	No
100-D-18_Deep	Rad	Uranium-238	U-238	pCi/g	0.65	1.1	No
100-D-19_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1,580	13	Yes
100-D-19_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.37	--	--
100-D-19_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	817	--	--
100-D-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.41E+06	1.18E+07	No
100-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	20,000	No
100-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	65,000	132,000	No
100-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	190	1,510	No
100-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,300	3,890	No
100-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,300	18,500	No
100-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,000	15,700	No
100-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,500	22,000	No
100-D-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	410	--	--
100-D-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	3.26E+07	No
100-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,900	10,200	No
100-D-2_Shallow_Focused	non-Rad	Lithium	7439-93-2	ug/kg	4,700	13,300	No
100-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	294,000	512,000	No
100-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	920	470	Yes
100-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	19,100	No
100-D-2_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	24,600	--	--
100-D-2_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2,400	--	--
100-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	50,100	85,100	No
100-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	51,300	67,800	No
100-D-20_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,563	3,210	No
100-D-20_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.21	--	--
100-D-20_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.5	1.1	Yes
100-D-20_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.072	0.0084	Yes
100-D-20_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.55	--	--
100-D-20_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.041	0.025	Yes
100-D-20_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.77	1.1	No
100-D-20_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.036	0.11	No
100-D-20_Shallow	Rad	Uranium-238	U-238	pCi/g	0.86	1.1	No
100-D-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.028	1.1	No
100-D-22_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,200	10,200	No
100-D-22_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,500	3,210	No
100-D-22_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.059	--	--
100-D-22_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	1.1	No
100-D-22_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.033	0.0084	Yes
100-D-22_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--	--
100-D-22_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	0.18	Yes
100-D-22_Shallow	Rad	Uranium-238	U-238	pCi/g	0.84	1.1	No
100-D-24_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.49E+06	1.18E+07	No
100-D-24_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	20,000	No
100-D-24_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,300	132,000	No
100-D-24_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	271	1,510	No
100-D-24_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	58	--	--
100-D-24_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,900	3,890	No
100-D-24_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	201	563	No
100-D-24_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,200	18,500	No
100-D-24_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	15,700	No
100-D-24_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,300	22,000	No
100-D-24_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	22	--	--
100-D-24_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	243	--	--
100-D-24_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.08E+07	3.26E+07	No
100-D-24_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,100	10,200	No
100-D-24_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295,000	512,000	No
100-D-24_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	13	Yes
100-D-24_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	7.1	--	--
100-D-24_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	466	470	No
100-D-24_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,800	19,100	No
100-D-24_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,956	3,210	No
100-D-24_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,700	85,100	No
100-D-24_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	41,600	67,800	No
100-D-24_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	1.1	No
100-D-24_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.66	1.1	No
100-D-28:1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.94E+06	1.18E+07	No
100-D-28:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	32	--	--
100-D-28:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	616	130	Yes
100-D-28:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,242	20,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-28:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	57,527	132,000	No
100-D-28:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	879	--	--
100-D-28:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	127	--	--
100-D-28:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	165	--	--
100-D-28:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	80	--	--
100-D-28:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,042	3,890	No
100-D-28:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	73	563	No
100-D-28:1_Overburden	non-Rad	Carbazole	86-74-8	ug/kg	76	--	--
100-D-28:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,399	18,500	No
100-D-28:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	559	--	--
100-D-28:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,751	15,700	No
100-D-28:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,727	22,000	No
100-D-28:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	48	--	--
100-D-28:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	374	--	--
100-D-28:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	284	--	--
100-D-28:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	96	--	--
100-D-28:1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	3.26E+07	No
100-D-28:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	13,258	10,200	Yes
100-D-28:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	283,917	512,000	No
100-D-28:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	79	13	Yes
100-D-28:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	330	470	No
100-D-28:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,387	19,100	No
100-D-28:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	827	--	--
100-D-28:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	54,469	85,100	No
100-D-28:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,796	67,800	No
100-D-28:1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	45	--	--
100-D-28:1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.12E+06	1.18E+07	No
100-D-28:1_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	110	--	--
100-D-28:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	380	130	Yes
100-D-28:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,258	20,000	No
100-D-28:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,402	132,000	No
100-D-28:1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	32	--	--
100-D-28:1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	47	--	--
100-D-28:1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--	--
100-D-28:1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	20	--	--
100-D-28:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	90	1,510	No
100-D-28:1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	--	--
100-D-28:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,300	3,890	No
100-D-28:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	130	563	No
100-D-28:1_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	--	--
100-D-28:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,867	18,500	No
100-D-28:1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	47	--	--
100-D-28:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,101	15,700	No
100-D-28:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,362	22,000	No
100-D-28:1_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	43	--	--
100-D-28:1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	30	--	--
100-D-28:1_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	50	--	--
100-D-28:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	203	--	--
100-D-28:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--	--
100-D-28:1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.26E+07	No
100-D-28:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,144	10,200	No
100-D-28:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,116	512,000	No
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	572	13	Yes
100-D-28:1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	410	470	No
100-D-28:1_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	46	--	--
100-D-28:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,864	19,100	No
100-D-28:1_Shallow	non-Rad	Phenol	108-95-2	ug/kg	28	--	--
100-D-28:1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	91	--	--
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	780	Yes
100-D-28:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,615	85,100	No
100-D-28:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,414	67,800	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.97	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.49	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.02E+06	1.18E+07	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	3.3	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,592	20,000	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	63,110	132,000	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	21	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	20	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	44	1,510	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	79	563	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,532	18,500	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	48	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	8,475	15,700	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	15,937	22,000	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	28	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	237	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	4,780	10,200	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	290,098	512,000	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	8.4	13	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	340	470	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,462	19,100	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	100	--	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43,439	85,100	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-28:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	38,595	67,800	No
100-D-29_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	686	130	Yes
100-D-29_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,302	20,000	No
100-D-29_Overburden	non-Rad	Barium	7440-39-3	ug/kg	62,796	132,000	No
100-D-29_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	356	1,510	No
100-D-29_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,128	3,890	No
100-D-29_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,050	18,500	No
100-D-29_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,731	15,700	No
100-D-29_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,763	10,200	No
100-D-29_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	297,023	512,000	No
100-D-29_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.4	13	No
100-D-29_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	260	470	No
100-D-29_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,804	19,100	No
100-D-29_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	494	3,210	No
100-D-29_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65,107	85,100	No
100-D-29_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,897	67,800	No
100-D-29_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.14	0.18	No
100-D-29_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.014	--	--
100-D-29_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.15	1.1	No
100-D-29_Overburden	Rad	Uranium-238	U-238	pCi/g	0.17	1.1	No
100-D-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	618	130	Yes
100-D-29_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,843	20,000	No
100-D-29_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,887	132,000	No
100-D-29_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	240	1,510	No
100-D-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,333	3,890	Yes
100-D-29_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	49	563	No
100-D-29_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,317	18,500	No
100-D-29_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,282	15,700	No
100-D-29_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,051	10,200	No
100-D-29_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	292,330	512,000	No
100-D-29_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	13	No
100-D-29_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	290	470	No
100-D-29_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,777	19,100	No
100-D-29_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	853	3,210	No
100-D-29_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	60,569	85,100	No
100-D-29_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,906	67,800	No
100-D-29_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.084	1.1	No
100-D-29_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.014	--	--
100-D-29_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.26	1.1	No
100-D-29_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.029	0.11	No
100-D-29_Shallow	Rad	Uranium-238	U-238	pCi/g	0.29	1.1	No
100-D-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	400	130	Yes
100-D-29_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,300	20,000	No
100-D-29_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	49,000	132,000	No
100-D-29_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270	1,510	No
100-D-29_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,200	18,500	No
100-D-29_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,800	15,700	No
100-D-29_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	10,200	No
100-D-29_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	270,000	512,000	No
100-D-29_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,600	19,100	No
100-D-29_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	287	3,210	No
100-D-29_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44,000	85,100	No
100-D-29_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	33,000	67,800	No
100-D-29_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.034	--	--
100-D-29_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.081	1.1	No
100-D-29_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.096	1.1	No
100-D-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	50	3,210	No
100-D-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.13	1.1	No
100-D-3_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.11	0.11	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Acetone	67-64-1	ug/kg	6.7	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.58E+06	1.18E+07	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.8	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,953	20,000	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Barium	7440-39-3	ug/kg	76,789	132,000	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.5	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.2	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.2	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	215	1,510	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,018	3,890	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	82	563	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,844	18,500	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	1.7	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,971	15,700	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,458	22,000	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	4.6	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	900	2,810	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.8	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.08E+07	3.26E+07	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,626	10,200	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318,306	512,000	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	13	13	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	386	470	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,377	19,100	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	4,032	52,000	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	710	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,120	--	--

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,757	3,210	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,650	85,100	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,390	67,800	No
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	1.1	No
100-D-31:1, 100-D-31:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.59	1.1	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	4.3	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.94E+06	1.18E+07	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.0	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	659	130	Yes
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	16	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	11	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,936	20,000	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	81,896	132,000	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.0	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.9	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.3	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	223	1,510	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,139	3,890	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	95	563	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,620	18,500	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.9	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,241	15,700	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,019	22,000	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.4	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.3	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	205	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	17	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.54E+07	3.26E+07	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,510	10,200	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	350,952	512,000	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	13	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	3.9	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	451	470	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,623	19,100	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	45,530	52,000	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	1,800	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	8,617	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	10	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	174	167	Yes
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OilH	ug/kg	22,432	--	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,861	3,210	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,961	85,100	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,886	67,800	No
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.64	1.1	No
100-D-31:1, 100-D-31:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	1.1	No
100-D-31:10_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.48	--	--
100-D-31:10_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.76E+06	1.18E+07	No
100-D-31:10_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,618	20,000	No
100-D-31:10_Overburden	non-Rad	Barium	7440-39-3	ug/kg	67,626	132,000	No
100-D-31:10_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--	--
100-D-31:10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,283	3,890	No
100-D-31:10_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	99	563	No
100-D-31:10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,762	18,500	No
100-D-31:10_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,309	15,700	No
100-D-31:10_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,563	22,000	No
100-D-31:10_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,219	2,810	No
100-D-31:10_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	412	--	--
100-D-31:10_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No
100-D-31:10_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,692	10,200	No
100-D-31:10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	289,763	512,000	No
100-D-31:10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	13	Yes
100-D-31:10_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	290	470	No
100-D-31:10_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,988	19,100	No
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,040	--	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	400	--	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	880	--	--
100-D-31:10_Overburden	non-Rad	Phenol	108-95-2	ug/kg	29	--	--
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,978	--	--
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,361	--	--
100-D-31:10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	713	3,210	No
100-D-31:10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	41,549	85,100	No
100-D-31:10_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	36,532	67,800	No
100-D-31:10_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	20	--	--
100-D-31:10_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	0.18	Yes
100-D-31:10_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.24	1.1	No
100-D-31:10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.25	1.1	No
100-D-31:10_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.2	--	--
100-D-31:10_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.4	--	--
100-D-31:10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.99E+06	1.18E+07	No
100-D-31:10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,721	20,000	No
100-D-31:10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,424	132,000	No
100-D-31:10_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--	--
100-D-31:10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,400	3,890	No
100-D-31:10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	162	563	No
100-D-31:10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,199	18,500	No
100-D-31:10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,426	15,700	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-31:10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,570	22,000	No
100-D-31:10_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,476	2,810	No
100-D-31:10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	3.26E+07	No
100-D-31:10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,201	10,200	No
100-D-31:10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	310,285	512,000	No
100-D-31:10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.4	13	No
100-D-31:10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	250	470	No
100-D-31:10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,326	19,100	No
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	7,582	--	--
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,545	--	--
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,000	--	--
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,700	--	--
100-D-31:10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	588	3,210	No
100-D-31:10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,877	85,100	No
100-D-31:10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,510	67,800	No
100-D-31:10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.068	1.1	No
100-D-31:10_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.18	1.1	No
100-D-31:10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20	1.1	No
100-D-31:10_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.71	--	--
100-D-31:10_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.61E+06	1.18E+07	No
100-D-31:10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	20,000	No
100-D-31:10_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	64,600	132,000	No
100-D-31:10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	33	1,510	No
100-D-31:10_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	91	--	--
100-D-31:10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	3,890	No
100-D-31:10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	180	563	No
100-D-31:10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,900	18,500	No
100-D-31:10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,200	15,700	No
100-D-31:10_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,300	22,000	No
100-D-31:10_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,400	2,810	No
100-D-31:10_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.26E+07	No
100-D-31:10_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,800	10,200	No
100-D-31:10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	318,000	512,000	No
100-D-31:10_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	5.8	13	No
100-D-31:10_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,300	19,100	No
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,200	--	--
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,500	--	--
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	--	--
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,600	--	--
100-D-31:10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,866	3,210	No
100-D-31:10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,300	85,100	No
100-D-31:10_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	47,800	67,800	No
100-D-31:10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.63	1.1	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.6	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	100	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.69E+06	1.18E+07	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	200	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,855	20,000	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,352	132,000	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	159	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	114	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	79	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	48	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	120	1,510	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	94	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,300	3,890	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,301	18,500	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	83	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,491	15,700	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	18,617	22,000	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	182	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	59	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,000	2,810	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	177	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	201	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.55E+07	3.26E+07	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,374	10,200	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	318,257	512,000	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	13	Yes
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	470	Yes
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	47	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,702	19,100	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	618	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	410	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	590	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	630	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,200	780	Yes
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,558	--	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,042	3,210	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	70,801	85,100	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47,795	67,800	No
100-D-31:3, 100-D-31:4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.15	1.1	No
100-D-31:3, 100-D-31:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	0.18	Yes
100-D-31:3, 100-D-31:4_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.59	1.1	No
100-D-31:3, 100-D-31:4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.69	1.1	No
100-D-31:3_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.26	--	--

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-31:3_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--	--
100-D-31:3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	--	--
100-D-31:3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.43E+06	1.18E+07	No
100-D-31:3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,175	20,000	No
100-D-31:3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,235	132,000	No
100-D-31:3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--	--
100-D-31:3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	20	--	--
100-D-31:3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--	--
100-D-31:3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	10	--	--
100-D-31:3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	147	1,510	No
100-D-31:3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	4,300	--	--
100-D-31:3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,200	3,890	No
100-D-31:3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	72	563	No
100-D-31:3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,656	18,500	No
100-D-31:3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	45	--	--
100-D-31:3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,346	15,700	No
100-D-31:3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	18,362	22,000	No
100-D-31:3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	97	--	--
100-D-31:3_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	992	2,810	No
100-D-31:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	181	--	--
100-D-31:3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	54	--	--
100-D-31:3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.55E+07	3.26E+07	No
100-D-31:3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,311	10,200	No
100-D-31:3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	302,831	512,000	No
100-D-31:3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	19	13	Yes
100-D-31:3_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	--	--
100-D-31:3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	380	470	No
100-D-31:3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,006	19,100	No
100-D-31:3_Shallow	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	1,219	--	--
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,248	--	--
100-D-31:3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	97	--	--
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,767	--	--
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,440	--	--
100-D-31:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,554	3,210	No
100-D-31:3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,700	85,100	No
100-D-31:3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	47,716	67,800	No
100-D-31:3_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.75	1.1	No
100-D-31:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.86	1.1	No
100-D-31:4_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	23	--	--
100-D-31:4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.61	--	--
100-D-31:4_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.4	--	--
100-D-31:4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.26E+06	1.18E+07	No
100-D-31:4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	562	--	--
100-D-31:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	19	--	--
100-D-31:4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,165	20,000	No
100-D-31:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,687	132,000	No
100-D-31:4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	649	--	--
100-D-31:4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1,900	--	--
100-D-31:4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,600	--	--
100-D-31:4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	920	--	--
100-D-31:4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	129	1,510	No
100-D-31:4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	138	--	--
100-D-31:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,000	3,890	No
100-D-31:4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	85	563	No
100-D-31:4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	230	--	--
100-D-31:4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.37	--	--
100-D-31:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,358	18,500	No
100-D-31:4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1,900	--	--
100-D-31:4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	11,170	15,700	No
100-D-31:4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,125	22,000	No
100-D-31:4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	176	--	--
100-D-31:4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	92	--	--
100-D-31:4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4,200	--	--
100-D-31:4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	243	--	--
100-D-31:4_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	950	2,810	No
100-D-31:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	437	--	--
100-D-31:4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	975	--	--
100-D-31:4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.61E+07	3.26E+07	No
100-D-31:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,636	10,200	No
100-D-31:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	322,669	512,000	No
100-D-31:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	42	13	Yes
100-D-31:4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	--	--
100-D-31:4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	320	470	No
100-D-31:4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,006	19,100	No
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	566	--	--
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	436	--	--
100-D-31:4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,276	--	--
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	9,750	--	--
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	36,219	--	--
100-D-31:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,929	3,210	No
100-D-31:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	85,009	85,100	No
100-D-31:4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,937	67,800	No
100-D-31:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.062	1.1	No
100-D-31:4_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.55	1.1	No
100-D-31:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	1.1	No
100-D-31:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.49E+06	1.18E+07	No
100-D-31:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	473	130	Yes
100-D-31:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,520	20,000	No
100-D-31:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	58,700	132,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-31:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	219	1,510	No
100-D-31:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	825	3,890	No
100-D-31:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	60	563	No
100-D-31:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,490	18,500	No
100-D-31:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,050	15,700	No
100-D-31:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17,600	22,000	No
100-D-31:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.7	--	--
100-D-31:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	--	--
100-D-31:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.67E+07	3.26E+07	No
100-D-31:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,460	10,200	No
100-D-31:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	346,000	512,000	No
100-D-31:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	472	470	Yes
100-D-31:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,500	19,100	No
100-D-31:4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	5,900	52,000	No
100-D-31:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,480	--	--
100-D-31:4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,024	3,210	No
100-D-31:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	75,300	85,100	No
100-D-31:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,600	67,800	No
100-D-31:4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.56	1.1	No
100-D-31:4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.68	1.1	No
100-D-31:5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,059	20,000	No
100-D-31:5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	259,914	132,000	Yes
100-D-31:5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	492	1,510	No
100-D-31:5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	20,105	3,890	Yes
100-D-31:5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,462	18,500	No
100-D-31:5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,646	15,700	No
100-D-31:5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	17,652	22,000	No
100-D-31:5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	8,925	10,200	No
100-D-31:5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	371,945	512,000	No
100-D-31:5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	142	13	Yes
100-D-31:5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	1,146	470	Yes
100-D-31:5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	14,926	19,100	No
100-D-31:5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	28,749	52,000	No
100-D-31:5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,728	780	Yes
100-D-31:5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	65,426	85,100	No
100-D-31:5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	56,474	67,800	No
100-D-31:5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,276	20,000	No
100-D-31:5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	144,277	132,000	Yes
100-D-31:5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	231	1,510	No
100-D-31:5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10,484	3,890	Yes
100-D-31:5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	242	563	No
100-D-31:5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,395	18,500	No
100-D-31:5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,126	15,700	No
100-D-31:5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,737	22,000	No
100-D-31:5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,456	10,200	No
100-D-31:5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	331,458	512,000	No
100-D-31:5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240	13	Yes
100-D-31:5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	700	470	Yes
100-D-31:5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,579	19,100	No
100-D-31:5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	46,047	52,000	No
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,500	780	Yes
100-D-31:5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,696	85,100	No
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	89,617	67,800	Yes
100-D-31:6_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.30	--	--
100-D-31:6_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	556	130	Yes
100-D-31:6_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,551	20,000	No
100-D-31:6_Overburden	non-Rad	Barium	7440-39-3	ug/kg	110,920	132,000	No
100-D-31:6_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1,380	1,510	No
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,998	3,890	Yes
100-D-31:6_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	60	563	No
100-D-31:6_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,736	18,500	No
100-D-31:6_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	14	--	--
100-D-31:6_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,947	15,700	No
100-D-31:6_Overburden	non-Rad	Copper	7440-50-8	ug/kg	24,687	22,000	Yes
100-D-31:6_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	3.0	--	--
100-D-31:6_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,709	2,810	No
100-D-31:6_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.0	--	--
100-D-31:6_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	607	--	--
100-D-31:6_Overburden	non-Rad	Lead	7439-92-1	ug/kg	7,537	10,200	No
100-D-31:6_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	355,498	512,000	No
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	870	13	Yes
100-D-31:6_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	326	470	No
100-D-31:6_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,583	19,100	No
100-D-31:6_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,654	--	--
100-D-31:6_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,499	85,100	No
100-D-31:6_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	65,614	67,800	No
100-D-31:6_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	800	130	Yes
100-D-31:6_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,998	20,000	No
100-D-31:6_Shallow	non-Rad	Barium	7440-39-3	ug/kg	105,118	132,000	No
100-D-31:6_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.0	--	--
100-D-31:6_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,274	1,510	No
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,860	3,890	Yes
100-D-31:6_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	103	563	No
100-D-31:6_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,798	18,500	No
100-D-31:6_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.3	--	--
100-D-31:6_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,066	15,700	No
100-D-31:6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	26,377	22,000	Yes
100-D-31:6_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,172	2,810	No
100-D-31:6_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	363	--	--

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-31:6_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,354	10,200	No
100-D-31:6_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330,083	512,000	No
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	577	13	Yes
100-D-31:6_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	460	470	No
100-D-31:6_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,585	19,100	No
100-D-31:6_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	6,985	--	--
100-D-31:6_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,023	85,100	No
100-D-31:6_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	63,960	67,800	No
100-D-31:7_Overburden	non-Rad	2-Butanone	78-93-3	ug/kg	2.0	--	--
100-D-31:7_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.67	--	--
100-D-31:7_Overburden	non-Rad	Acetone	67-64-1	ug/kg	13	--	--
100-D-31:7_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.17E+06	1.18E+07	No
100-D-31:7_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	404	130	Yes
100-D-31:7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.2	--	--
100-D-31:7_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,862	20,000	No
100-D-31:7_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,232	132,000	No
100-D-31:7_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--	--
100-D-31:7_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1,700	1,510	Yes
100-D-31:7_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	73	--	--
100-D-31:7_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,305	3,890	No
100-D-31:7_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	46	563	No
100-D-31:7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,038	18,500	No
100-D-31:7_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,775	15,700	No
100-D-31:7_Overburden	non-Rad	Copper	7440-50-8	ug/kg	20,400	22,000	No
100-D-31:7_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,300	2,810	No
100-D-31:7_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	3.26E+07	No
100-D-31:7_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,665	10,200	No
100-D-31:7_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	304,518	512,000	No
100-D-31:7_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	--	--
100-D-31:7_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	514	470	Yes
100-D-31:7_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,125	19,100	No
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	939	--	--
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	687	--	--
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,767	--	--
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,876	--	--
100-D-31:7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	472	3,210	No
100-D-31:7_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,619	85,100	No
100-D-31:7_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	42,804	67,800	No
100-D-31:7_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.11	0.18	No
100-D-31:7_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.16	1.1	No
100-D-31:7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.16	1.1	No
100-D-31:7_Shallow	non-Rad	2-Butanone	78-93-3	ug/kg	1.8	--	--
100-D-31:7_Shallow	non-Rad	Acetone	67-64-1	ug/kg	8.0	--	--
100-D-31:7_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	4.77E+06	1.18E+07	No
100-D-31:7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,391	20,000	No
100-D-31:7_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,248	132,000	No
100-D-31:7_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,500	1,510	No
100-D-31:7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--	--
100-D-31:7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,234	18,500	No
100-D-31:7_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,431	15,700	No
100-D-31:7_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,912	22,000	No
100-D-31:7_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.76E+07	3.26E+07	No
100-D-31:7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1,794	10,200	No
100-D-31:7_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	335,983	512,000	No
100-D-31:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	92	13	Yes
100-D-31:7_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	--	--
100-D-31:7_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	260	470	No
100-D-31:7_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,657	19,100	No
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	696	--	--
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,459	--	--
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	900	--	--
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,100	--	--
100-D-31:7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	324	3,210	No
100-D-31:7_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,980	85,100	No
100-D-31:7_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,513	67,800	No
100-D-31:7_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.11	1.1	No
100-D-31:7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.11	1.1	No
100-D-31:7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.73E+06	1.18E+07	No
100-D-31:7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,000	20,000	No
100-D-31:7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	75,300	132,000	No
100-D-31:7_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	63	--	--
100-D-31:7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No
100-D-31:7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	18,500	No
100-D-31:7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,600	15,700	No
100-D-31:7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	17,900	22,000	No
100-D-31:7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.69E+07	3.26E+07	No
100-D-31:7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,800	10,200	No
100-D-31:7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	512,000	No
100-D-31:7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	230	470	No
100-D-31:7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,400	19,100	No
100-D-31:7_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	700	--	--
100-D-31:7_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	363	3,210	No
100-D-31:7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	79,500	85,100	No
100-D-31:7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,100	67,800	No
100-D-31:7_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.17	1.1	No
100-D-31:7_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.12	1.1	No
100-D-31:8_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.73E+06	1.18E+07	No
100-D-31:8_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,796	20,000	No
100-D-31:8_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,527	132,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-31:8_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.0	--	--
100-D-31:8_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.0	--	--
100-D-31:8_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,200	3,890	No
100-D-31:8_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	49	563	No
100-D-31:8_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,017	18,500	No
100-D-31:8_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	13	--	--
100-D-31:8_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,458	15,700	No
100-D-31:8_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,323	22,000	No
100-D-31:8_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,168	2,810	No
100-D-31:8_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	332	--	--
100-D-31:8_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.46E+07	3.26E+07	No
100-D-31:8_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,584	10,200	No
100-D-31:8_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	339,535	512,000	No
100-D-31:8_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.8	13	No
100-D-31:8_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	470	Yes
100-D-31:8_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,368	19,100	No
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,023	--	--
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	783	--	--
100-D-31:8_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,917	--	--
100-D-31:8_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	839	3,210	No
100-D-31:8_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	64,672	85,100	No
100-D-31:8_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,758	67,800	No
100-D-31:8_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.92	0.18	Yes
100-D-31:8_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.26	1.1	No
100-D-31:8_Overburden	Rad	Uranium-238	U-238	pCi/g	0.28	1.1	No
100-D-31:8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.63	--	--
100-D-31:8_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.11E+06	1.18E+07	No
100-D-31:8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,205	20,000	No
100-D-31:8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,186	132,000	No
100-D-31:8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.9	--	--
100-D-31:8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	12	--	--
100-D-31:8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--	--
100-D-31:8_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.9	--	--
100-D-31:8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--	--
100-D-31:8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	940	3,890	No
100-D-31:8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	71	563	No
100-D-31:8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,290	18,500	No
100-D-31:8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.2	--	--
100-D-31:8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,016	15,700	No
100-D-31:8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,311	22,000	No
100-D-31:8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--	--
100-D-31:8_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,850	2,810	No
100-D-31:8_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.26E+07	No
100-D-31:8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,024	10,200	No
100-D-31:8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	312,190	512,000	No
100-D-31:8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.6	13	No
100-D-31:8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	630	470	Yes
100-D-31:8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,943	19,100	No
100-D-31:8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	563	--	--
100-D-31:8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	27	--	--
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	--	--
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,100	--	--
100-D-31:8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	516	3,210	No
100-D-31:8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,087	85,100	No
100-D-31:8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,019	67,800	No
100-D-31:8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.19	1.1	No
100-D-31:8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.19	1.1	No
100-D-31:8_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.66E+06	1.18E+07	No
100-D-31:8_Shallow_Focused_1	non-Rad	Antimony	7440-36-0	ug/kg	446	130	Yes
100-D-31:8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,890	20,000	No
100-D-31:8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	70,500	132,000	No
100-D-31:8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	169	1,510	No
100-D-31:8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	65	563	No
100-D-31:8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	6,790	18,500	No
100-D-31:8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,000	15,700	No
100-D-31:8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	16,200	22,000	No
100-D-31:8_Shallow_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	--	--
100-D-31:8_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.81E+07	3.26E+07	No
100-D-31:8_Shallow_Focused_1	non-Rad	Isophorone	78-59-1	ug/kg	77	--	--
100-D-31:8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	2,510	10,200	No
100-D-31:8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	334,000	512,000	No
100-D-31:8_Shallow_Focused_1	non-Rad	Mercury	7439-97-6	ug/kg	26	13	Yes
100-D-31:8_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	502	470	Yes
100-D-31:8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	8,890	19,100	No
100-D-31:8_Shallow_Focused_1	non-Rad	Nitrate	14797-55-8	ug/kg	9,400	52,000	No
100-D-31:8_Shallow_Focused_1	non-Rad	Silver	7440-22-4	ug/kg	147	167	No
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	94,900	85,100	Yes
100-D-31:8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	51,800	67,800	No
100-D-31:8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	2.06E+07	1.18E+07	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	5,900	20,000	No
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	1.57E+06	132,000	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1,300	1,510	No
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	169,000	3,890	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	430	563	No
100-D-31:8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	13,400	18,500	No
100-D-31:8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,900	15,700	No
100-D-31:8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	42,400	22,000	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	3.26E+07	No
100-D-31:8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	24,200	10,200	Yes

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-31:8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	368,000	512,000	No
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	120	13	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2,300	470	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	19,700	19,100	Yes
100-D-31:8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	67,200	85,100	No
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	83,000	67,800	Yes
100-D-31:9_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	31	--	--
100-D-31:9_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	12	--	--
100-D-31:9_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.04E+06	1.18E+07	No
100-D-31:9_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	1,175	20,000	No
100-D-31:9_Overburden	non-Rad	Barium	7440-39-3	ug/kg	58,676	132,000	No
100-D-31:9_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--	--
100-D-31:9_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	74	563	No
100-D-31:9_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	5,328	18,500	No
100-D-31:9_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,066	15,700	No
100-D-31:9_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,689	22,000	No
100-D-31:9_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	900	2,810	No
100-D-31:9_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	3.26E+07	No
100-D-31:9_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,029	10,200	No
100-D-31:9_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	292,130	512,000	No
100-D-31:9_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.6	13	No
100-D-31:9_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	360	470	No
100-D-31:9_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,187	19,100	No
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	652	--	--
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,300	--	--
100-D-31:9_Overburden	non-Rad	Phenol	108-95-2	ug/kg	24	--	--
100-D-31:9_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,800	--	--
100-D-31:9_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	773	3,210	No
100-D-31:9_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	52,680	85,100	No
100-D-31:9_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	39,155	67,800	No
100-D-31:9_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.23	1.1	No
100-D-31:9_Overburden	Rad	Uranium-238	U-238	pCi/g	0.29	1.1	No
100-D-31:9_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	4.84E+06	1.18E+07	No
100-D-31:9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,517	20,000	No
100-D-31:9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,243	132,000	No
100-D-31:9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--	--
100-D-31:9_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	14	--	--
100-D-31:9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--	--
100-D-31:9_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	11	--	--
100-D-31:9_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	114	--	--
100-D-31:9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,100	3,890	No
100-D-31:9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	53	563	No
100-D-31:9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,132	18,500	No
100-D-31:9_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	19	--	--
100-D-31:9_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,666	15,700	No
100-D-31:9_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,871	22,000	No
100-D-31:9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	222	--	--
100-D-31:9_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	12	--	--
100-D-31:9_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.26E+07	No
100-D-31:9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,853	10,200	No
100-D-31:9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	318,748	512,000	No
100-D-31:9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	6.6	13	No
100-D-31:9_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	260	470	No
100-D-31:9_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	8,678	19,100	No
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	607	--	--
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	690	--	--
100-D-31:9_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	70	--	--
100-D-31:9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	735	3,210	No
100-D-31:9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	57,014	85,100	No
100-D-31:9_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,433	67,800	No
100-D-31:9_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.17	1.1	No
100-D-31:9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.25	1.1	No
100-D-32_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	130	Yes
100-D-32_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,245	20,000	No
100-D-32_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,480	132,000	No
100-D-32_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	225	1,510	No
100-D-32_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,234	3,890	No
100-D-32_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	563	No
100-D-32_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,852	18,500	No
100-D-32_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,061	15,700	No
100-D-32_Overburden	non-Rad	Copper	7440-50-8	ug/kg	18,183	22,000	No
100-D-32_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,836	10,200	No
100-D-32_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	369,294	512,000	No
100-D-32_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	549	470	Yes
100-D-32_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,365	19,100	No
100-D-32_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,762	3,210	No
100-D-32_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	76,983	85,100	No
100-D-32_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51,821	67,800	No
100-D-32_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.1	No
100-D-32_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.043	0.11	No
100-D-32_Overburden	Rad	Uranium-238	U-238	pCi/g	0.59	1.1	No
100-D-32_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	826	130	Yes
100-D-32_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,499	20,000	No
100-D-32_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,887	132,000	No
100-D-32_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	694	1,510	No
100-D-32_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,505	3,890	No
100-D-32_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	200	563	No
100-D-32_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,447	18,500	No
100-D-32_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,970	15,700	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-32_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,997	22,000	No
100-D-32_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,774	10,200	No
100-D-32_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	356,899	512,000	No
100-D-32_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	568	470	Yes
100-D-32_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,033	19,100	No
100-D-32_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,466	3,210	No
100-D-32_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	76,249	85,100	No
100-D-32_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	62,123	67,800	No
100-D-32_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.10	1.1	No
100-D-32_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--	--
100-D-32_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	1.1	No
100-D-32_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.14	1.1	No
100-D-32_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	1.1	No
100-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,274	3,210	Yes
100-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.13	1.1	No
100-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	1.1	1.1	Yes
100-D-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	71	--	--
100-D-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	120	--	--
100-D-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	199	--	--
100-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,831	3,210	No
100-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.1	No
100-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--	--
100-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.13	0.18	No
100-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	1.1	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.67E+06	1.18E+07	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	393	130	Yes
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,340	20,000	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Barium	7440-39-3	ug/kg	61,074	132,000	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	233	1,510	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Boron	7440-42-8	ug/kg	929	3,890	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	101	563	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,297	18,500	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,359	15,700	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Copper	7440-50-8	ug/kg	26,641	22,000	Yes
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,752	10,200	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	316,433	512,000	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	513	470	Yes
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,120	19,100	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	700	780	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	63,875	85,100	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,856	67,800	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.30E+06	1.18E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	456	130	Yes
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,740	20,000	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,900	132,000	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	242	1,510	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,181	3,890	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	91	563	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,963	18,500	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,682	15,700	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	ug/kg	90,384	22,000	Yes
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,745	10,200	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	313,773	512,000	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	13	Yes
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	520	470	Yes
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,516	19,100	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,326	85,100	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,192	67,800	No
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.16	1.1	No
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	0.0084	Yes
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.54E+06	1.18E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	20,000	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,000	132,000	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	100	1,510	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	660	3,890	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160	563	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	18,500	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	15,700	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,500	22,000	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.9	--	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,200	10,200	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	335,000	512,000	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	530	470	Yes
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	19,100	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	77,900	85,100	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,000	67,800	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.64	1.1	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	0.0084	Yes
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	464	--	--
100-D-47_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	789	130	Yes
100-D-47_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,159	20,000	No
100-D-47_Overburden	non-Rad	Barium	7440-39-3	ug/kg	74,847	132,000	No
100-D-47_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	225	1,510	No
100-D-47_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,497	3,890	No
100-D-47_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	563	No
100-D-47_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,948	18,500	No
100-D-47_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,295	15,700	No
100-D-47_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,504	22,000	No
100-D-47_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,065	10,200	No
100-D-47_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	342,771	512,000	No
100-D-47_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	11	13	No
100-D-47_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	492	470	Yes
100-D-47_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,406	19,100	No
100-D-47_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,713	3,210	No
100-D-47_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	68,752	85,100	No
100-D-47_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	45,248	67,800	No
100-D-47_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.0	0.18	Yes
100-D-47_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.64	1.1	No
100-D-47_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.055	0.11	No
100-D-47_Overburden	Rad	Uranium-238	U-238	pCi/g	0.57	1.1	No
100-D-47_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,157	20,000	No
100-D-47_Shallow	non-Rad	Barium	7440-39-3	ug/kg	74,542	132,000	No
100-D-47_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	510	1,510	No
100-D-47_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,317	3,890	No
100-D-47_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	225	563	No
100-D-47_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,828	18,500	No
100-D-47_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,982	15,700	No
100-D-47_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,445	22,000	No
100-D-47_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,018	10,200	No
100-D-47_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	338,839	512,000	No
100-D-47_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	501	470	Yes
100-D-47_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,351	19,100	No
100-D-47_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,694	3,210	No
100-D-47_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	70,090	85,100	No
100-D-47_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	49,435	67,800	No
100-D-47_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.090	1.1	No
100-D-47_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.60	0.0084	Yes
100-D-47_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--	--
100-D-47_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.2	--	--
100-D-47_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.93	0.18	Yes
100-D-47_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.1	No
100-D-47_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.039	0.11	No
100-D-47_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	1.1	No
100-D-47_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	700	130	Yes
100-D-47_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	20,000	No
100-D-47_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,600	132,000	No
100-D-47_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300	1,510	No
100-D-47_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,700	3,890	No
100-D-47_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	563	No
100-D-47_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,300	18,500	No
100-D-47_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,500	15,700	No
100-D-47_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,100	22,000	No
100-D-47_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	320	--	--
100-D-47_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,100	10,200	No
100-D-47_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	512,000	No
100-D-47_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	470	Yes
100-D-47_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,300	19,100	No
100-D-47_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,551	3,210	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	85,700	85,100	Yes
100-D-47_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	55,300	67,800	No
100-D-47_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.69	1.1	No
100-D-47_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	0.0084	Yes
100-D-47_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.5	--	--
100-D-47_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	36	--	--
100-D-47_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.2	0.18	Yes
100-D-47_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.1	No
100-D-47_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.52	1.1	No
100-D-48:1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5,010	--	--
100-D-48:1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,794	3,210	No
100-D-48:1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.26	--	--
100-D-48:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	30	1.1	Yes
100-D-48:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	8.1	0.0084	Yes
100-D-48:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	64	--	--
100-D-48:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	4.8	0.033	Yes
100-D-48:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.51	0.025	Yes
100-D-48:1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.68	0.18	Yes
100-D-48:1_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	1.1	No
100-D-48:1_Deep	Rad	Uranium-238	U-238	pCi/g	0.60	1.1	No
100-D-48:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	643	--	--
100-D-48:1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,223	3,210	No
100-D-48:1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.27	1.1	No
100-D-48:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.31	--	--
100-D-48:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	0.18	Yes
100-D-48:1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	1.1	No
100-D-48:1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.41	1.1	No
100-D-48:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,488	3,210	No
100-D-48:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.8	1.1	Yes
100-D-48:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.39	0.0084	Yes
100-D-48:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	3.2	--	--
100-D-48:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.53	0.033	Yes
100-D-48:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.077	0.025	Yes
100-D-48:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	0.18	Yes
100-D-48:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	1.1	No
100-D-48:2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.064	0.11	No
100-D-48:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.50	1.1	No
100-D-48:2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	608	--	--
100-D-48:2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,415	3,210	No
100-D-48:2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.091	1.1	No
100-D-48:2_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	0.0084	Yes
100-D-48:2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.11	--	--
100-D-48:2_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.025	0.025	Yes
100-D-48:2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	1.1	No
100-D-48:2_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.035	0.11	No
100-D-48:2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.48	1.1	No
100-D-48:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,496	3,210	No
100-D-48:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.89	1.1	No
100-D-48:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.096	0.0084	Yes
100-D-48:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.56	--	--
100-D-48:2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	0.033	Yes
100-D-48:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.046	0.025	Yes
100-D-48:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.18	0.18	No
100-D-48:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	1.1	No
100-D-48:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.030	0.11	No
100-D-48:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	1.1	No
100-D-48:3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	587	--	--
100-D-48:3_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,230	3,210	No
100-D-48:3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.7	1.1	Yes
100-D-48:3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	0.0084	Yes
100-D-48:3_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.67	--	--
100-D-48:3_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.071	0.033	Yes
100-D-48:3_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.19	0.025	Yes
100-D-48:3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	0.18	Yes
100-D-48:3_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	1.1	No
100-D-48:3_Deep	Rad	Uranium-238	U-238	pCi/g	0.41	1.1	No
100-D-48:3_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,278	3,210	No
100-D-48:3_Overburden	Rad	Americium-241	14596-10-2	pCi/g	0.052	--	--
100-D-48:3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.21	1.1	No
100-D-48:3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.040	0.0084	Yes
100-D-48:3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.25	--	--
100-D-48:3_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	0.37	0.0038	Yes
100-D-48:3_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.4	0.025	Yes
100-D-48:3_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	1.1	No
100-D-48:3_Overburden	Rad	Uranium-238	U-238	pCi/g	0.43	1.1	No
100-D-48:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	802	--	--
100-D-48:3_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,499	3,210	No
100-D-48:3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.053	--	--
100-D-48:3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.78	1.1	No
100-D-48:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.13	--	--
100-D-48:3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.061	0.025	Yes
100-D-48:3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	0.18	Yes
100-D-48:3_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	1.1	No
100-D-48:3_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	1.1	No
100-D-48:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	--	--
100-D-48:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,596	3,210	No
100-D-48:4_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.029	--	--
100-D-48:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.44	1.1	No
100-D-48:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.043	0.0084	Yes

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-48:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--	--
100-D-48:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.028	0.025	Yes
100-D-48:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.44	0.18	Yes
100-D-48:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.49	1.1	No
100-D-48:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.54	1.1	No
100-D-49:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,300	--	--
100-D-49:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,717	3,210	No
100-D-49:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	62	1.1	Yes
100-D-49:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.6	0.0084	Yes
100-D-49:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	24	--	--
100-D-49:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.9	0.033	Yes
100-D-49:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.26	0.025	Yes
100-D-49:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	0.18	Yes
100-D-49:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	1.1	No
100-D-49:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	1.1	No
100-D-49:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,063	3,210	No
100-D-49:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	1.1	No
100-D-49:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.24	--	--
100-D-49:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	1.1	No
100-D-49:2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.089	0.11	No
100-D-49:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.36	1.1	No
100-D-49:3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,762	3,210	No
100-D-49:3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	1.1	No
100-D-49:3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.59	1.1	No
100-D-49:4_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,638	10,200	No
100-D-49:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	42	13	Yes
100-D-49:4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,348	3,210	No
100-D-49:4_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.040	--	--
100-D-49:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.1	1.1	Yes
100-D-49:4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	0.0084	Yes
100-D-49:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	8.3	--	--
100-D-49:4_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	0.033	Yes
100-D-49:4_Deep	Rad	Nickel-63	13981-37-8	pCi/g	3.0	--	--
100-D-49:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	0.025	Yes
100-D-49:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	0.18	Yes
100-D-49:4_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	1.1	No
100-D-49:4_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.074	0.11	No
100-D-49:4_Deep	Rad	Uranium-238	U-238	pCi/g	0.45	1.1	No
100-D-49:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	170	--	--
100-D-49:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	21,359	10,200	Yes
100-D-49:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	33	13	Yes
100-D-49:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,458	3,210	No
100-D-49:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.45	1.1	No
100-D-49:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.058	0.0084	Yes
100-D-49:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5	--	--
100-D-49:4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	0.033	Yes
100-D-49:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	0.025	Yes
100-D-49:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	1.1	No
100-D-49:4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.054	0.11	No
100-D-49:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	1.1	No
100-D-50:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.37E+06	1.18E+07	No
100-D-50:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	20,000	No
100-D-50:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,600	132,000	No
100-D-50:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	419	1,510	No
100-D-50:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	811	3,890	No
100-D-50:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	563	No
100-D-50:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,400	18,500	No
100-D-50:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,400	15,700	No
100-D-50:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,500	22,000	No
100-D-50:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	3.26E+07	No
100-D-50:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,500	10,200	No
100-D-50:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	271,000	512,000	No
100-D-50:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	243	470	No
100-D-50:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	19,100	No
100-D-50:5_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1.5	3,210	No
100-D-50:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34,900	85,100	No
100-D-50:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	32,900	67,800	No
100-D-52_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,900	132,000	No
100-D-52_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,400	18,500	No
100-D-52_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,300	10,200	No
100-D-52_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,646	3,210	No
100-D-52_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.065	1.1	No
100-D-52_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.36	--	--
100-D-52_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	1.1	No
100-D-52_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	1.1	No
100-D-56:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	1,200	130	Yes
100-D-56:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,522	20,000	No
100-D-56:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	70,319	132,000	No
100-D-56:1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	570	1,510	No
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,633	3,890	Yes
100-D-56:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	189	563	No
100-D-56:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,204	18,500	No
100-D-56:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,320	15,700	No
100-D-56:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	16,174	22,000	No
100-D-56:1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	3,300	2,810	Yes
100-D-56:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	271	--	--
100-D-56:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	9,649	10,200	No
100-D-56:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	327,758	512,000	No
100-D-56:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	75	13	Yes

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-56:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	950	470	Yes
100-D-56:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,053	19,100	No
100-D-56:1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	22,648	52,000	No
100-D-56:1_Overburden	non-Rad	Nitrite	14797-65-0	ug/kg	4,080	--	--
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2,100	780	Yes
100-D-56:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,593	85,100	No
100-D-56:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	66,962	67,800	No
100-D-56:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,100	130	Yes
100-D-56:1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,560	20,000	No
100-D-56:1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	59,734	132,000	No
100-D-56:1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	496	1,510	No
100-D-56:1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,600	3,890	No
100-D-56:1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	195	563	No
100-D-56:1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,457	18,500	No
100-D-56:1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,300	15,700	No
100-D-56:1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,186	22,000	No
100-D-56:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	--	--
100-D-56:1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,080	10,200	No
100-D-56:1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	290,501	512,000	No
100-D-56:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes
100-D-56:1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,800	19,100	No
100-D-56:1_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	29,400	52,000	No
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	780	Yes
100-D-56:1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	49,162	85,100	No
100-D-56:1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,499	67,800	No
100-D-56:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,000	130	Yes
100-D-56:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	20,000	No
100-D-56:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,900	132,000	No
100-D-56:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	550	1,510	No
100-D-56:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,800	3,890	No
100-D-56:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	18,500	No
100-D-56:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	15,700	No
100-D-56:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,600	22,000	No
100-D-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	--	--
100-D-56:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,000	10,200	No
100-D-56:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	339,000	512,000	No
100-D-56:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	10	13	No
100-D-56:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,100	19,100	No
100-D-56:1_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	8,830	52,000	No
100-D-56:1_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	240	167	Yes
100-D-56:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51,100	85,100	No
100-D-56:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,900	67,800	No
100-D-56:2_Overburden_4	non-Rad	Antimony	7440-36-0	ug/kg	500	130	Yes
100-D-56:2_Overburden_4	non-Rad	Arsenic	7440-38-2	ug/kg	3,421	20,000	No
100-D-56:2_Overburden_4	non-Rad	Barium	7440-39-3	ug/kg	71,232	132,000	No
100-D-56:2_Overburden_4	non-Rad	Beryllium	7440-41-7	ug/kg	984	1,510	No
100-D-56:2_Overburden_4	non-Rad	Boron	7440-42-8	ug/kg	1,250	3,890	No
100-D-56:2_Overburden_4	non-Rad	Cadmium	7440-43-9	ug/kg	121	563	No
100-D-56:2_Overburden_4	non-Rad	Chromium	7440-47-3	ug/kg	17,678	18,500	No
100-D-56:2_Overburden_4	non-Rad	Cobalt	7440-48-4	ug/kg	7,597	15,700	No
100-D-56:2_Overburden_4	non-Rad	Copper	7440-50-8	ug/kg	15,676	22,000	No
100-D-56:2_Overburden_4	non-Rad	Fluoride	16984-48-8	ug/kg	1,700	2,810	No
100-D-56:2_Overburden_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	371	--	--
100-D-56:2_Overburden_4	non-Rad	Lead	7439-92-1	ug/kg	4,232	10,200	No
100-D-56:2_Overburden_4	non-Rad	Manganese	7439-96-5	ug/kg	311,404	512,000	No
100-D-56:2_Overburden_4	non-Rad	Mercury	7439-97-6	ug/kg	11	13	No
100-D-56:2_Overburden_4	non-Rad	Molybdenum	7439-98-7	ug/kg	350	470	No
100-D-56:2_Overburden_4	non-Rad	Nickel	7440-02-0	ug/kg	11,138	19,100	No
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,188	--	--
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	638	--	--
100-D-56:2_Overburden_4	non-Rad	Vanadium	7440-62-2	ug/kg	56,980	85,100	No
100-D-56:2_Overburden_4	non-Rad	Zinc	7440-66-6	ug/kg	56,993	67,800	No
100-D-56:2_Overburden_5	non-Rad	Arsenic	7440-38-2	ug/kg	2,947	20,000	No
100-D-56:2_Overburden_5	non-Rad	Barium	7440-39-3	ug/kg	67,670	132,000	No
100-D-56:2_Overburden_5	non-Rad	Beryllium	7440-41-7	ug/kg	1,271	1,510	No
100-D-56:2_Overburden_5	non-Rad	Boron	7440-42-8	ug/kg	1,407	3,890	No
100-D-56:2_Overburden_5	non-Rad	Cadmium	7440-43-9	ug/kg	86	563	No
100-D-56:2_Overburden_5	non-Rad	Chromium	7440-47-3	ug/kg	16,179	18,500	No
100-D-56:2_Overburden_5	non-Rad	Cobalt	7440-48-4	ug/kg	7,547	15,700	No
100-D-56:2_Overburden_5	non-Rad	Copper	7440-50-8	ug/kg	15,393	22,000	No
100-D-56:2_Overburden_5	non-Rad	Fluoride	16984-48-8	ug/kg	1,091	2,810	No
100-D-56:2_Overburden_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	223	--	--
100-D-56:2_Overburden_5	non-Rad	Lead	7439-92-1	ug/kg	4,438	10,200	No
100-D-56:2_Overburden_5	non-Rad	Manganese	7439-96-5	ug/kg	306,866	512,000	No
100-D-56:2_Overburden_5	non-Rad	Mercury	7439-97-6	ug/kg	21	13	Yes
100-D-56:2_Overburden_5	non-Rad	Nickel	7440-02-0	ug/kg	10,692	19,100	No
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,535	--	--
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	492	--	--
100-D-56:2_Overburden_5	non-Rad	Vanadium	7440-62-2	ug/kg	52,528	85,100	No
100-D-56:2_Overburden_5	non-Rad	Zinc	7440-66-6	ug/kg	41,330	67,800	No
100-D-56:2_Overburden_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	493	--	--
100-D-56:2_Overburden_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,000	20,000	No
100-D-56:2_Overburden_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	65,000	132,000	No
100-D-56:2_Overburden_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	1,400	1,510	No
100-D-56:2_Overburden_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	11,000	18,500	No
100-D-56:2_Overburden_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	15,700	No
100-D-56:2_Overburden_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	16,000	22,000	No
100-D-56:2_Overburden_Focused_2	non-Rad	Fluoride	16984-48-8	ug/kg	3,400	2,810	Yes
100-D-56:2_Overburden_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	4,200	10,200	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-56:2_Overburden_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	310,000	512,000	No
100-D-56:2_Overburden_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	280	470	No
100-D-56:2_Overburden_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	11,000	19,100	No
100-D-56:2_Overburden_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,300	--	--
100-D-56:2_Overburden_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	60,000	85,100	No
100-D-56:2_Overburden_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	42,000	67,800	No
100-D-56:2_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	420	130	Yes
100-D-56:2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,208	20,000	No
100-D-56:2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	62,220	132,000	No
100-D-56:2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	405	1,510	No
100-D-56:2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,525	3,890	No
100-D-56:2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	65	563	No
100-D-56:2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,824	18,500	No
100-D-56:2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,636	15,700	No
100-D-56:2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	14,188	22,000	No
100-D-56:2_Shallow_1	non-Rad	Fluoride	16984-48-8	ug/kg	1,750	2,810	No
100-D-56:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	244	--	--
100-D-56:2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,872	10,200	No
100-D-56:2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	306,134	512,000	No
100-D-56:2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	9.7	13	No
100-D-56:2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,388	19,100	No
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	903	--	--
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	513	--	--
100-D-56:2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	56,966	85,100	No
100-D-56:2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41,375	67,800	No
100-D-56:2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,810	20,000	No
100-D-56:2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	59,234	132,000	No
100-D-56:2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	328	1,510	No
100-D-56:2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,100	3,890	No
100-D-56:2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	84	563	No
100-D-56:2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,515	18,500	No
100-D-56:2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,536	15,700	No
100-D-56:2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,635	22,000	No
100-D-56:2_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	1,708	2,810	No
100-D-56:2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,414	10,200	No
100-D-56:2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	281,887	512,000	No
100-D-56:2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	9.0	13	No
100-D-56:2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,048	19,100	No
100-D-56:2_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,478	--	--
100-D-56:2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,416	85,100	No
100-D-56:2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36,899	67,800	No
100-D-56:2_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	3,170	20,000	No
100-D-56:2_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	67,570	132,000	No
100-D-56:2_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	1,164	1,510	No
100-D-56:2_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,605	3,890	No
100-D-56:2_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	96	563	No
100-D-56:2_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	9,261	18,500	No
100-D-56:2_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	8,173	15,700	No
100-D-56:2_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	15,431	22,000	No
100-D-56:2_Shallow_3	non-Rad	Fluoride	16984-48-8	ug/kg	1,431	2,810	No
100-D-56:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	659	--	--
100-D-56:2_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	5,446	10,200	No
100-D-56:2_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	322,267	512,000	No
100-D-56:2_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	11	13	No
100-D-56:2_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	10,049	19,100	No
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,431	--	--
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	675	--	--
100-D-56:2_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	64,762	85,100	No
100-D-56:2_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	46,651	67,800	No
100-D-56:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.92E+06	1.18E+07	No
100-D-56:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	390	130	Yes
100-D-56:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	20,000	No
100-D-56:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,500	132,000	No
100-D-56:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	140	1,510	No
100-D-56:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	3,890	No
100-D-56:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	93	563	No
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	29,300	18,500	Yes
100-D-56:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	15,700	No
100-D-56:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,800	22,000	No
100-D-56:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	662	--	--
100-D-56:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.23E+07	3.26E+07	No
100-D-56:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,700	10,200	No
100-D-56:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300,000	512,000	No
100-D-56:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	7.9	13	No
100-D-56:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	470	No
100-D-56:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	19,100	No
100-D-56:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	85,100	No
100-D-56:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,400	67,800	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,600	20,000	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Barium	7440-39-3	ug/kg	79,000	132,000	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	84	--	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Beryllium	7440-41-7	ug/kg	490	1,510	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-56:2_Staging pile area footprint_focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	563	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	18,500	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chrysene	218-01-9	ug/kg	29	--	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,500	15,700	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	22,000	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	10,200	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Manganese	7439-96-5	ug/kg	350,000	512,000	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Mercury	7439-97-6	ug/kg	9.7	13	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nickel	7440-02-0	ug/kg	11,000	19,100	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	590	--	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Pyrene	129-00-0	ug/kg	15	--	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Vanadium	7440-62-2	ug/kg	55,000	85,100	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Zinc	7440-66-6	ug/kg	44,000	67,800	No
100-D-61_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.3	--	--
100-D-61_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	5.2	--	--
100-D-61_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	491	130	Yes
100-D-61_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,006	20,000	No
100-D-61_Shallow	non-Rad	Barium	7440-39-3	ug/kg	158,794	132,000	Yes
100-D-61_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	16	--	--
100-D-61_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.5	--	--
100-D-61_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.5	--	--
100-D-61_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.6	--	--
100-D-61_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	865	1,510	No
100-D-61_Shallow	non-Rad	Boron	7440-42-8	ug/kg	11,172	3,890	Yes
100-D-61_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,565	18,500	No
100-D-61_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	15	--	--
100-D-61_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,407	15,700	No
100-D-61_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,831	22,000	No
100-D-61_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--	--
100-D-61_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--	--
100-D-61_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	2.6	--	--
100-D-61_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	--	--
100-D-61_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,459	10,200	No
100-D-61_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	347,567	512,000	No
100-D-61_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13	13	No
100-D-61_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	516	470	Yes
100-D-61_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,720	19,100	No
100-D-61_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	43	--	--
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,040	780	Yes
100-D-61_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	11,436	--	--
100-D-61_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	63,682	85,100	No
100-D-61_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,816	67,800	No
100-D-7_Shallow_1	non-Rad	2-Butanone	78-93-3	ug/kg	1.7	--	--
100-D-7_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--	--
100-D-7_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	15	--	--
100-D-7_Shallow_1	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	--	--
100-D-7_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.66E+06	1.18E+07	No
100-D-7_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,524	20,000	No
100-D-7_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	59,795	132,000	No
100-D-7_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	30	--	--
100-D-7_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	126	1,510	No
100-D-7_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,900	3,890	No
100-D-7_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	46	563	No
100-D-7_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,035	18,500	No
100-D-7_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,814	15,700	No
100-D-7_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	11,689	22,000	No
100-D-7_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	130	--	--
100-D-7_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	68	--	--
100-D-7_Shallow_1	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.52	--	--
100-D-7_Shallow_1	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.75	--	--
100-D-7_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	184	--	--
100-D-7_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	29	--	--
100-D-7_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.48E+07	3.26E+07	No
100-D-7_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,490	10,200	No
100-D-7_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	290,472	512,000	No
100-D-7_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	6.5	13	No
100-D-7_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--	--
100-D-7_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	382	470	No
100-D-7_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	9,120	19,100	No
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	834	780	Yes
100-D-7_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	0.91	--	--
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,386	--	--

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,725	--	--
100-D-7_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	70,960	85,100	No
100-D-7_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	43,437	67,800	No
100-D-7_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.55	--	--
100-D-7_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.88	--	--
100-D-7_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	--	--
100-D-7_Shallow_2	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.22	--	--
100-D-7_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.93E+06	1.18E+07	No
100-D-7_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,073	20,000	No
100-D-7_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	81,723	132,000	No
100-D-7_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	142	1,510	No
100-D-7_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--	--
100-D-7_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,533	3,890	No
100-D-7_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	85	563	No
100-D-7_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	9,024	18,500	No
100-D-7_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,015	15,700	No
100-D-7_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	11,766	22,000	No
100-D-7_Shallow_2	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.59	--	--
100-D-7_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.85	--	--
100-D-7_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	236	--	--
100-D-7_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.36E+07	3.26E+07	No
100-D-7_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,003	10,200	No
100-D-7_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	343,655	512,000	No
100-D-7_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	12	13	No
100-D-7_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	--	--
100-D-7_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	353	470	No
100-D-7_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	9,973	19,100	No
100-D-7_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	410	167	Yes
100-D-7_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,700	--	--
100-D-7_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	63,913	85,100	No
100-D-7_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	46,279	67,800	No
100-D-7_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	6.3	--	--
100-D-7_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	--	--
100-D-7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	1.18E+07	No
100-D-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	20,000	No
100-D-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	69,300	132,000	No
100-D-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	180	1,510	No
100-D-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,200	3,890	No
100-D-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	63	563	No
100-D-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	18,500	No
100-D-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	15,700	No
100-D-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,400	22,000	No
100-D-7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	3.26E+07	No
100-D-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,300	10,200	No
100-D-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	303,000	512,000	No
100-D-7_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	8.8	13	No
100-D-7_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--	--
100-D-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,600	19,100	No
100-D-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,200	85,100	No
100-D-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	42,000	67,800	No
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.82	--	--
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.6	--	--
100-D-7_Staging pile area footprint	non-Rad	Acetone	67-64-1	ug/kg	6.2	--	--
100-D-7_Staging pile area footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.18E+06	1.18E+07	No
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	100	--	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.9	--	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	49	--	--
100-D-7_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	ug/kg	1,625	20,000	No
100-D-7_Staging pile area footprint	non-Rad	Barium	7440-39-3	ug/kg	72,000	132,000	No
100-D-7_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	ug/kg	155	1,510	No
100-D-7_Staging pile area footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,100	--	--
100-D-7_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,719	3,890	No
100-D-7_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	ug/kg	103	563	No
100-D-7_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,443	18,500	No
100-D-7_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,081	15,700	No
100-D-7_Staging pile area footprint	non-Rad	Copper	7440-50-8	ug/kg	16,451	22,000	No
100-D-7_Staging pile area footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	452	--	--
100-D-7_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	285	--	--
100-D-7_Staging pile area footprint	non-Rad	Iron	7439-89-6	ug/kg	1.62E+07	3.26E+07	No
100-D-7_Staging pile area footprint	non-Rad	Lead	7439-92-1	ug/kg	5,630	10,200	No
100-D-7_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	279,739	512,000	No
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	ug/kg	304	13	Yes
100-D-7_Staging pile area footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.7	--	--
100-D-7_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	340	470	No
100-D-7_Staging pile area footprint	non-Rad	Nickel	7440-02-0	ug/kg	9,889	19,100	No
100-D-7_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	710	167	Yes
100-D-7_Staging pile area footprint	non-Rad	Toluene	108-88-3	ug/kg	0.72	--	--
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,152	--	--
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,699	--	--
100-D-7_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	34,102	85,100	No
100-D-7_Staging pile area footprint	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.0	--	--
100-D-7_Staging pile area footprint	non-Rad	Zinc	7440-66-6	ug/kg	40,486	67,800	No
100-D-7_Staging pile area footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.056	1.1	No
100-D-70_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.30E+06	1.18E+07	No
100-D-70_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,800	20,000	No
100-D-70_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99,000	132,000	No
100-D-70_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	250	1,510	No
100-D-70_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	130	563	No
100-D-70_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	18,500	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-70_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,500	15,700	No
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,900	22,000	Yes
100-D-70_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.53E+07	3.26E+07	No
100-D-70_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,300	10,200	No
100-D-70_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	512,000	No
100-D-70_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.7	--	--
100-D-70_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	470	No
100-D-70_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	14,000	19,100	No
100-D-70_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,200	--	--
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,000	--	--
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,400	--	--
100-D-70_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	61,100	85,100	No
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,800	67,800	Yes
100-D-74_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.01E+06	1.18E+07	No
100-D-74_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	10	--	--
100-D-74_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	20,000	No
100-D-74_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	54,300	132,000	No
100-D-74_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--	--
100-D-74_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--	--
100-D-74_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.9	--	--
100-D-74_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	120	1,510	No
100-D-74_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,400	18,500	No
100-D-74_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--	--
100-D-74_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	15,700	No
100-D-74_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	22,000	No
100-D-74_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.29E+07	3.26E+07	No
100-D-74_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	10,200	No
100-D-74_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	512,000	No
100-D-74_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	13	Yes
100-D-74_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	320	470	No
100-D-74_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,500	19,100	No
100-D-74_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	40	--	--
100-D-74_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,600	85,100	No
100-D-74_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,900	67,800	No
100-D-75:3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.82E+06	1.18E+07	No
100-D-75:3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,000	20,000	No
100-D-75:3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	60,500	132,000	No
100-D-75:3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	76	563	No
100-D-75:3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,900	18,500	No
100-D-75:3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,700	15,700	No
100-D-75:3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,000	22,000	No
100-D-75:3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	3.26E+07	No
100-D-75:3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,000	10,200	No
100-D-75:3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	297,000	512,000	No
100-D-75:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	13	Yes
100-D-75:3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	350	470	No
100-D-75:3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,100	19,100	No
100-D-75:3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,400	--	--
100-D-75:3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	85,100	No
100-D-75:3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,600	67,800	No
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,300	--	--
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,600	--	--
100-D-82_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.15E+06	1.18E+07	No
100-D-82_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.5	--	--
100-D-82_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,900	20,000	No
100-D-82_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	27,800	132,000	No
100-D-82_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	93	1,510	No
100-D-82_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	49	563	No
100-D-82_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,300	18,500	No
100-D-82_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	15,700	No
100-D-82_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	8,700	22,000	No
100-D-82_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	9.96E+06	3.26E+07	No
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	134,000	10,200	Yes
100-D-82_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	164,000	512,000	No
100-D-82_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	290	470	No
100-D-82_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	6,900	19,100	No
100-D-82_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	17,800	85,100	No
100-D-82_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	37,500	67,800	No
100-D-83:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.62E+06	1.18E+07	No
100-D-83:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	550	130	Yes
100-D-83:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	20,000	No
100-D-83:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,400	132,000	No
100-D-83:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	120	1,510	No
100-D-83:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	52	563	No
100-D-83:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	18,500	No
100-D-83:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,200	15,700	No
100-D-83:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,400	22,000	No
100-D-83:4_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,000	2,810	No
100-D-83:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	172	--	--
100-D-83:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.58E+07	3.26E+07	No
100-D-83:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,600	10,200	No
100-D-83:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	512,000	No
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	950	13	Yes
100-D-83:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	440	470	No
100-D-83:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,900	19,100	No
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,600	--	--
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,500	--	--
100-D-83:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,100	85,100	No
100-D-83:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,100	67,800	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-84:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.16E+06	1.18E+07	No
100-D-84:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	20,000	No
100-D-84:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	74,700	132,000	No
100-D-84:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.4	--	--
100-D-84:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	300	1,510	No
100-D-84:1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	79	--	--
100-D-84:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No
100-D-84:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	43	563	No
100-D-84:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	18,500	No
100-D-84:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,800	15,700	No
100-D-84:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,200	22,000	No
100-D-84:1_Shallow_Focused	non-Rad	Diethylphthalate	84-66-2	ug/kg	72	--	--
100-D-84:1_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	2,810	No
100-D-84:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.87E+07	3.26E+07	No
100-D-84:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	10,200	No
100-D-84:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	343,000	512,000	No
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	120	13	Yes
100-D-84:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	470	No
100-D-84:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	19,100	No
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	9,400	--	--
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	10,200	--	--
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	85,100	Yes
100-D-84:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	52,500	67,800	No
100-D-85:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.99E+06	1.18E+07	No
100-D-85:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,100	20,000	No
100-D-85:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,900	132,000	No
100-D-85:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	88	1,510	No
100-D-85:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,400	18,500	No
100-D-85:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	15,700	No
100-D-85:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	11,600	22,000	No
100-D-85:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.27E+07	3.26E+07	No
100-D-85:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,800	10,200	No
100-D-85:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	278,000	512,000	No
100-D-85:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	390	470	No
100-D-85:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,500	19,100	No
100-D-85:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,900	85,100	No
100-D-85:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,100	67,800	No
100-D-87_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.62E+06	1.18E+07	No
100-D-87_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	480	130	Yes
100-D-87_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,000	20,000	No
100-D-87_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	89,200	132,000	No
100-D-87_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	45	--	--
100-D-87_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	55	--	--
100-D-87_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--	--
100-D-87_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	180	1,510	No
100-D-87_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,400	3,890	No
100-D-87_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	450	563	No
100-D-87_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,300	18,500	No
100-D-87_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	64	--	--
100-D-87_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	15,700	No
100-D-87_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,800	22,000	No
100-D-87_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	41	--	--
100-D-87_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--	--
100-D-87_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.26E+07	No
100-D-87_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	19,300	10,200	Yes
100-D-87_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	304,000	512,000	No
100-D-87_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	13	Yes
100-D-87_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	380	470	No
100-D-87_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,800	19,100	No
100-D-87_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	55	--	--
100-D-87_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,000	85,100	No
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,600	67,800	Yes
100-D-88_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.71E+06	1.18E+07	No
100-D-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	510	130	Yes
100-D-88_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--	--
100-D-88_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	20,000	No
100-D-88_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	105,000	132,000	No
100-D-88_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	270	1,510	No
100-D-88_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	3,890	No
100-D-88_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,400	18,500	No
100-D-88_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,500	15,700	No
100-D-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	29,200	22,000	Yes
100-D-88_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,900	2,810	No
100-D-88_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	--	--
100-D-88_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	3.09E+07	3.26E+07	No
100-D-88_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	10,200	No
100-D-88_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	384,000	512,000	No
100-D-88_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	12	13	No
100-D-88_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--	--
100-D-88_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	300	470	No
100-D-88_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,400	19,100	No
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,900	--	--
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,800	--	--
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,300	--	--
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	15,000	--	--
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	104,000	85,100	Yes
100-D-88_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	63,900	67,800	No
100-D-9_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	7.0	--	--
100-D-9_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	3.89E+06	1.18E+07	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-D-9_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,200	20,000	No
100-D-9_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	63,800	132,000	No
100-D-9_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	470	1,510	No
100-D-9_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	29	--	--
100-D-9_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	820	3,890	No
100-D-9_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	170	563	No
100-D-9_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	18,500	No
100-D-9_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,600	15,700	No
100-D-9_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,300	22,000	No
100-D-9_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	25	--	--
100-D-9_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.51E+07	3.26E+07	No
100-D-9_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,000	10,200	No
100-D-9_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	299,000	512,000	No
100-D-9_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	8.0	--	--
100-D-9_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	450	470	No
100-D-9_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,100	19,100	No
100-D-9_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	67,300	85,100	No
100-D-9_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,100	67,800	No
100-D-94_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.97E+06	1.18E+07	No
100-D-94_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	450	130	Yes
100-D-94_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	20,000	No
100-D-94_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,800	132,000	No
100-D-94_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	1,510	No
100-D-94_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,000	18,500	No
100-D-94_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,300	15,700	No
100-D-94_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,000	22,000	No
100-D-94_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	2,810	No
100-D-94_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	3.26E+07	No
100-D-94_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,700	10,200	Yes
100-D-94_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	275,000	512,000	No
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	580	13	Yes
100-D-94_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,000	19,100	No
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	--	--
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,700	--	--
100-D-94_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,200	85,100	No
100-D-94_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	38,700	67,800	No
116-D-10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	1.18E+07	No
116-D-10_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	463	130	Yes
116-D-10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,666	20,000	No
116-D-10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	69,640	132,000	No
116-D-10_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	227	1,510	No
116-D-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,220	3,890	No
116-D-10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	109	563	No
116-D-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,278	18,500	No
116-D-10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,369	15,700	No
116-D-10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,218	22,000	No
116-D-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	213	--	--
116-D-10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.39E+07	3.26E+07	No
116-D-10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,465	10,200	No
116-D-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	320,612	512,000	No
116-D-10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	383	470	No
116-D-10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,914	19,100	No
116-D-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,491	3,210	No
116-D-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	67,123	85,100	No
116-D-10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,464	67,800	No
116-D-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.092	1.1	No
116-D-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	1.1	No
116-D-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	1.1	No
116-D-10_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	4.68E+06	1.18E+07	No
116-D-10_Staging Pile Area	non-Rad	Antimony	7440-36-0	ug/kg	484	130	Yes
116-D-10_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	2,037	20,000	No
116-D-10_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	60,780	132,000	No
116-D-10_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	171	1,510	No
116-D-10_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	856	3,890	No
116-D-10_Staging Pile Area	non-Rad	Cadmium	7440-43-9	ug/kg	99	563	No
116-D-10_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	5,983	18,500	No
116-D-10_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	8,902	15,700	No
116-D-10_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	13,930	22,000	No
116-D-10_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	168	--	--
116-D-10_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	2.62E+07	3.26E+07	No
116-D-10_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	2,894	10,200	No
116-D-10_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	318,856	512,000	No
116-D-10_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	15	13	Yes
116-D-10_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	414	470	No
116-D-10_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	8,845	19,100	No
116-D-10_Staging Pile Area	non-Rad	Silver	7440-22-4	ug/kg	180	167	Yes
116-D-10_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,547	3,210	No
116-D-10_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	76,278	85,100	No
116-D-10_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	45,859	67,800	No
116-D-10_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.079	1.1	No
116-D-10_Staging Pile Area	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.89	0.18	Yes
116-D-10_Staging Pile Area	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	1.1	No
116-D-10_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.52	1.1	No
116-D-1A_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,740	--	--
116-D-1A_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,667	3,210	No
116-D-1A_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.7	--	--
116-D-1A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	409	1.1	Yes
116-D-1A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.8	0.0084	Yes
116-D-1A_Deep	Rad	Europium-152	14683-23-9	pCi/g	193	--	--

Table 7-3 Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-D-1A_Deep	Rad	Europium-154	15585-10-1	pCi/g	16	0.033	Yes
116-D-1A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.20	0.0038	Yes
116-D-1A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	11	0.025	Yes
116-D-1A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21	0.18	Yes
116-D-1A_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	1.1	No
116-D-1A_Deep	Rad	Uranium-238	U-238	pCi/g	0.56	1.1	No
116-D-1A_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	611	--	--
116-D-1A_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,451	3,210	No
116-D-1A_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.15	--	--
116-D-1A_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.76	1.1	No
116-D-1A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--	--
116-D-1A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	0.18	Yes
116-D-1A_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	1.1	No
116-D-1A_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	1.1	No
116-D-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,423	3,210	No
116-D-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.068	1.1	No
116-D-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	1.1	No
116-D-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.032	0.11	No
116-D-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.47	1.1	No
116-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,268	3,210	No
116-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.050	1.1	No
116-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	1.1	No
116-D-4_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.060	0.11	No
116-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.42	1.1	No
116-D-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.96	--	--
116-D-5_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	7.77E+06	1.18E+07	No
116-D-5_Deep	non-Rad	Antimony	7440-36-0	ug/kg	358	130	Yes
116-D-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,033	20,000	No
116-D-5_Deep	non-Rad	Barium	7440-39-3	ug/kg	71,855	132,000	No
116-D-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	95	--	--
116-D-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	63	--	--
116-D-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--	--
116-D-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--	--
116-D-5_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	227	1,510	No
116-D-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	--	--
116-D-5_Deep	non-Rad	Boron	7440-42-8	ug/kg	957	3,890	No
116-D-5_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	87	563	No
116-D-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	17,916	18,500	No
116-D-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	87	--	--
116-D-5_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	9,088	15,700	No
116-D-5_Deep	non-Rad	Copper	7440-50-8	ug/kg	18,442	22,000	No
116-D-5_Deep	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	36	--	--
116-D-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	90	--	--
116-D-5_Deep	non-Rad	Fluoride	16984-48-8	ug/kg	1,100	2,810	No
116-D-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	353	--	--
116-D-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	62	--	--
116-D-5_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.41E+07	3.26E+07	No
116-D-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	5,457	10,200	No
116-D-5_Deep	non-Rad	Manganese	7439-96-5	ug/kg	338,530	512,000	No
116-D-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	318	13	Yes
116-D-5_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	350	470	No
116-D-5_Deep	non-Rad	Nickel	7440-02-0	ug/kg	13,273	19,100	No
116-D-5_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	35,000	52,000	No
116-D-5_Deep	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	11,300	--	--
116-D-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	7,925	--	--
116-D-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	155	--	--
116-D-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,735	3,210	No
116-D-5_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	58,449	85,100	No
116-D-5_Deep	non-Rad	Zinc	7440-66-6	ug/kg	50,192	67,800	No
116-D-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1.1	1.1	Yes
116-D-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.52	--	--
116-D-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	0.18	Yes
116-D-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	1.1	No
116-D-5_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.27	1.1	No
116-D-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.58	1.1	No
116-D-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.08E+06	1.18E+07	No
116-D-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	12	--	--
116-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,147	20,000	No
116-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	58,354	132,000	No
116-D-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--	--
116-D-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--	--
116-D-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	55	--	--
116-D-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--	--
116-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	177	1,510	No
116-D-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	854	--	--
116-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	850	3,890	No
116-D-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	62	563	No
116-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,881	18,500	No
116-D-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	33	--	--
116-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,546	15,700	No
116-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,050	22,000	No
116-D-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.5	--	--
116-D-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	131	--	--
116-D-5_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.5	--	--
116-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	151	--	--
116-D-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--	--
116-D-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	3.26E+07	No
116-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,606	10,200	No
116-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	284,702	512,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	13	Yes
116-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	305	470	No
116-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	8,734	19,100	No
116-D-5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	29,337	52,000	No
116-D-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,757	--	--
116-D-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	79	--	--
116-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,106	3,210	No
116-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	56,601	85,100	No
116-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,706	67,800	No
116-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.1	No
116-D-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.10	--	--
116-D-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	2.8	--	--
116-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	1.1	No
116-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	1.1	No
116-D-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.94E+06	1.18E+07	No
116-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,877	20,000	No
116-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,089	132,000	No
116-D-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	10	--	--
116-D-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--	--
116-D-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--	--
116-D-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.0	--	--
116-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	212	1,510	No
116-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,134	3,890	No
116-D-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	67	563	No
116-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,365	18,500	No
116-D-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	13	--	--
116-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,905	15,700	No
116-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,071	22,000	No
116-D-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	13	--	--
116-D-5_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	480	2,810	No
116-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	--	--
116-D-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--	--
116-D-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.35E+07	3.26E+07	No
116-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,775	10,200	No
116-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	324,766	512,000	No
116-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	65	13	Yes
116-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	314	470	No
116-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,277	19,100	No
116-D-5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	9,325	52,000	No
116-D-5_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	91,100	--	--
116-D-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,479	--	--
116-D-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	14	--	--
116-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	1,300	167	Yes
116-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,935	3,210	No
116-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	62,589	85,100	No
116-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	51,204	67,800	No
116-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.43	1.1	No
116-D-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	--	--
116-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.5	--	--
116-D-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	0.025	Yes
116-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.65	1.1	No
116-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	1.1	No
116-D-5_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	6.6	--	--
116-D-5_Staging pile area footprint	non-Rad	Aluminum	7429-90-5	ug/kg	5.64E+06	1.18E+07	No
116-D-5_Staging pile area footprint	non-Rad	Antimony	7440-36-0	ug/kg	239	130	Yes
116-D-5_Staging pile area footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,371	20,000	No
116-D-5_Staging pile area footprint	non-Rad	Barium	7440-39-3	ug/kg	61,781	132,000	No
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.2	--	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.0	--	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--	--
116-D-5_Staging pile area footprint	non-Rad	Beryllium	7440-41-7	ug/kg	185	1,510	No
116-D-5_Staging pile area footprint	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.5	--	--
116-D-5_Staging pile area footprint	non-Rad	Boron	7440-42-8	ug/kg	1,067	3,890	No
116-D-5_Staging pile area footprint	non-Rad	Cadmium	7440-43-9	ug/kg	59	563	No
116-D-5_Staging pile area footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,014	18,500	No
116-D-5_Staging pile area footprint	non-Rad	Chrysene	218-01-9	ug/kg	12	--	--
116-D-5_Staging pile area footprint	non-Rad	Cobalt	7440-48-4	ug/kg	7,289	15,700	No
116-D-5_Staging pile area footprint	non-Rad	Copper	7440-50-8	ug/kg	14,234	22,000	No
116-D-5_Staging pile area footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.4	--	--
116-D-5_Staging pile area footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	8.8	--	--
116-D-5_Staging pile area footprint	non-Rad	Fluoride	16984-48-8	ug/kg	300	2,810	No
116-D-5_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	149	--	--
116-D-5_Staging pile area footprint	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	3.26E+07	No
116-D-5_Staging pile area footprint	non-Rad	Lead	7439-92-1	ug/kg	3,269	10,200	No
116-D-5_Staging pile area footprint	non-Rad	Manganese	7439-96-5	ug/kg	276,906	512,000	No
116-D-5_Staging pile area footprint	non-Rad	Methoxychlor	72-43-5	ug/kg	20	--	--
116-D-5_Staging pile area footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	281	470	No
116-D-5_Staging pile area footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,057	19,100	No
116-D-5_Staging pile area footprint	non-Rad	Nitrate	14797-55-8	ug/kg	13,893	52,000	No
116-D-5_Staging pile area footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,627	--	--
116-D-5_Staging pile area footprint	non-Rad	Pyrene	129-00-0	ug/kg	6.2	--	--
116-D-5_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	228	167	Yes
116-D-5_Staging pile area footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,770	3,210	No
116-D-5_Staging pile area footprint	non-Rad	Vanadium	7440-62-2	ug/kg	52,464	85,100	No
116-D-5_Staging pile area footprint	non-Rad	Zinc	7440-66-6	ug/kg	41,996	67,800	No
116-D-5_Staging pile area footprint	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	1.1	No
116-D-5_Staging pile area footprint	Rad	Uranium-238	U-238	pCi/g	0.59	1.1	No
116-D-6_Deep	non-Rad	Acetone	67-64-1	ug/kg	10	--	--

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-D-6_Deep	non-Rad	Barium	7440-39-3	ug/kg	54,700	132,000	No
116-D-6_Deep	non-Rad	Chromium	7440-47-3	ug/kg	9,200	18,500	No
116-D-6_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,800	10,200	No
116-D-6_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	13	Yes
116-D-6_Deep	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--	--
116-D-6_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,265	3,210	No
116-D-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.54	1.1	No
116-D-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.9	--	--
116-D-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.15	0.033	Yes
116-D-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.038	0.025	Yes
116-D-6_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	1.1	No
116-D-6_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.081	0.11	No
116-D-6_Deep	Rad	Uranium-238	U-238	pCi/g	0.43	1.1	No
116-D-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	217,059	18,500	Yes
116-D-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3,737	--	--
116-D-7_Deep	non-Rad	Lead	7439-92-1	ug/kg	7,751	10,200	No
116-D-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,873	13	Yes
116-D-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	31	1.1	Yes
116-D-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	23	0.0084	Yes
116-D-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	265	--	--
116-D-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	37	0.033	Yes
116-D-7_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.7	0.054	Yes
116-D-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	725	--	--
116-D-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.049	0.0038	Yes
116-D-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.96	0.025	Yes
116-D-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	0.18	Yes
116-D-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,241	18,500	No
116-D-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,126	--	--
116-D-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,655	10,200	No
116-D-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,474	3,210	No
116-D-7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.014	--	--
116-D-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.20	1.1	No
116-D-7_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.050	0.0084	Yes
116-D-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--	--
116-D-7_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.047	0.033	Yes
116-D-7_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.8	--	--
116-D-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.48	1.1	No
116-D-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.040	0.11	No
116-D-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	1.1	No
116-D-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.3	--	--
116-D-8_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	21	--	--
116-D-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	385	130	Yes
116-D-8_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	27	--	--
116-D-8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,906	20,000	No
116-D-8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	71,253	132,000	No
116-D-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	31	--	--
116-D-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--	--
116-D-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	49	--	--
116-D-8_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	475	1,510	No
116-D-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	200	--	--
116-D-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,417	3,890	No
116-D-8_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	61	563	No
116-D-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,654	18,500	No
116-D-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	660	--	--
116-D-8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,732	15,700	No
116-D-8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,183	22,000	No
116-D-8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	56	--	--
116-D-8_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	2,048	2,810	No
116-D-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	41,188	10,200	Yes
116-D-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	304,542	512,000	No
116-D-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	23	13	Yes
116-D-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--	--
116-D-8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,657	19,100	No
116-D-8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,208	--	--
116-D-8_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,943	--	--
116-D-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	24	--	--
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	11,473	--	--
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,750	--	--
116-D-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	436	3,210	No
116-D-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,268	85,100	No
116-D-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	46,326	67,800	No
116-D-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.7	1.1	Yes
116-D-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39	0.18	Yes
116-D-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.15	1.1	No
116-D-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.15	1.1	No
116-D-8_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	4.37E+06	1.18E+07	No
116-D-8_Shallow_Focused_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.6	--	--
116-D-8_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	1,800	20,000	No
116-D-8_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	47,900	132,000	No
116-D-8_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	120	1,510	No
116-D-8_Shallow_Focused_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--	--
116-D-8_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	41	563	No
116-D-8_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	5,600	18,500	No
116-D-8_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,200	15,700	No
116-D-8_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	12,800	22,000	No
116-D-8_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	1.47E+07	3.26E+07	No
116-D-8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	35,000	10,200	Yes
116-D-8_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	232,000	512,000	No
116-D-8_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	9,700	19,100	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-D-8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	22,100	85,100	No
116-D-8_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	26,900	67,800	No
116-D-8_Shallow_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	0.50	1.1	No
116-D-8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	5.77E+06	1.18E+07	No
116-D-8_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	490	130	Yes
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	96	--	--
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	180	--	--
116-D-8_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,700	20,000	No
116-D-8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	77,900	132,000	No
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	29	--	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	27	--	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	53	--	--
116-D-8_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	120	1,510	No
116-D-8_Shallow_Focused_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--	--
116-D-8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	2,700	3,890	No
116-D-8_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	170	563	No
116-D-8_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	10,100	18,500	No
116-D-8_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	45	--	--
116-D-8_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,000	15,700	No
116-D-8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15,300	22,000	No
116-D-8_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	52	--	--
116-D-8_Shallow_Focused_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	--	--
116-D-8_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	2.12E+07	3.26E+07	No
116-D-8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,800	10,200	Yes
116-D-8_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	301,000	512,000	No
116-D-8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	29	13	Yes
116-D-8_Shallow_Focused_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	--	--
116-D-8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	370	470	No
116-D-8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	9,900	19,100	No
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	5,000	--	--
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,300	--	--
116-D-8_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	53	--	--
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1,200	780	Yes
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,000	--	--
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	46,000	--	--
116-D-8_Shallow_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	765	3,210	No
116-D-8_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	58,700	85,100	No
116-D-8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	55,200	67,800	No
116-D-8_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	7.6	1.1	Yes
116-D-8_Shallow_Focused_2	Rad	Uranium-234	13966-29-5	pCi/g	0.20	1.1	No
116-D-8_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.26	1.1	No
116-D-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,648	3,210	No
116-D-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.055	1.1	No
116-D-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.56	0.18	Yes
116-D-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	1.1	No
116-D-9_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.051	0.11	No
116-D-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.55	1.1	No
116-DR-1,2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	900	--	--
116-DR-1,2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	75	1.1	Yes
116-DR-1,2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	3.5	0.0084	Yes
116-DR-1,2_Deep	Rad	Europium-152	14683-23-9	pCi/g	126	--	--
116-DR-1,2_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.1	0.033	Yes
116-DR-1,2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	49	--	--
116-DR-1,2_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.077	0.0038	Yes
116-DR-1,2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.3	0.025	Yes
116-DR-1,2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	29	0.18	Yes
116-DR-1,2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,432	3,210	No
116-DR-1,2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.68	1.1	No
116-DR-1,2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	0.0084	Yes
116-DR-1,2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--	--
116-DR-1,2_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.029	0.0038	Yes
116-DR-1,2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	1.1	No
116-DR-1,2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.027	0.11	No
116-DR-1,2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.48	1.1	No
116-DR-10_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	1.18E+07	No
116-DR-10_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.0	--	--
116-DR-10_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,958	20,000	No
116-DR-10_Overburden	non-Rad	Barium	7440-39-3	ug/kg	66,524	132,000	No
116-DR-10_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	190	1,510	No
116-DR-10_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,049	3,890	No
116-DR-10_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	88	563	No
116-DR-10_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,292	18,500	No
116-DR-10_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,708	15,700	No
116-DR-10_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,263	22,000	No
116-DR-10_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	3.26E+07	No
116-DR-10_Overburden	non-Rad	Lead	7439-92-1	ug/kg	7,026	10,200	No
116-DR-10_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	288,834	512,000	No
116-DR-10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	35	13	Yes
116-DR-10_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	307	470	No
116-DR-10_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	9,734	19,100	No
116-DR-10_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,831	3,210	No
116-DR-10_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51,136	85,100	No
116-DR-10_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,621	67,800	No
116-DR-10_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	1.1	No
116-DR-10_Overburden	Rad	Uranium-238	U-238	pCi/g	0.62	1.1	No
116-DR-10_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.96E+06	1.18E+07	No
116-DR-10_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--	--
116-DR-10_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,821	20,000	No
116-DR-10_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57,993	132,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-DR-10_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	182	1,510	No
116-DR-10_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,035	3,890	No
116-DR-10_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	101	563	No
116-DR-10_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,445	18,500	No
116-DR-10_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,101	15,700	No
116-DR-10_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,970	22,000	No
116-DR-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	100	--	--
116-DR-10_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.00E+07	3.26E+07	No
116-DR-10_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,281	10,200	No
116-DR-10_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,317	512,000	No
116-DR-10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	13	Yes
116-DR-10_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	332	470	No
116-DR-10_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,308	19,100	No
116-DR-10_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,926	3,210	No
116-DR-10_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,456	85,100	No
116-DR-10_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,543	67,800	No
116-DR-10_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	1.1	No
116-DR-10_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.16	--	--
116-DR-10_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.043	0.025	Yes
116-DR-10_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.1	No
116-DR-10_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	1.1	No
116-DR-10_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.99E+06	1.18E+07	No
116-DR-10_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,790	20,000	No
116-DR-10_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	41,600	132,000	No
116-DR-10_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	161	1,510	No
116-DR-10_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	598	3,890	No
116-DR-10_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	143	563	No
116-DR-10_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	6,650	18,500	No
116-DR-10_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,370	15,700	No
116-DR-10_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	22,000	No
116-DR-10_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	240	--	--
116-DR-10_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.66E+07	3.26E+07	No
116-DR-10_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,750	10,200	No
116-DR-10_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	310,000	512,000	No
116-DR-10_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	13	13	No
116-DR-10_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	497	470	Yes
116-DR-10_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,630	19,100	No
116-DR-10_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,164	3,210	No
116-DR-10_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	73,400	85,100	No
116-DR-10_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,500	67,800	No
116-DR-10_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.65	1.1	No
116-DR-10_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.58	--	--
116-DR-10_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	0.025	Yes
116-DR-10_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	1.1	No
116-DR-10_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.39	1.1	No
116-DR-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,477	3,210	No
116-DR-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.061	1.1	No
116-DR-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.65	1.1	No
116-DR-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	1.1	No
116-DR-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	7.32E+06	1.18E+07	No
116-DR-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,616	20,000	No
116-DR-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	72,420	132,000	No
116-DR-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	74	--	--
116-DR-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--	--
116-DR-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	102	--	--
116-DR-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	120	1,510	No
116-DR-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,142	3,890	No
116-DR-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,534	18,500	No
116-DR-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	92	--	--
116-DR-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,716	15,700	No
116-DR-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	21,451	22,000	No
116-DR-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--	--
116-DR-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	258	--	--
116-DR-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--	--
116-DR-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.33E+07	3.26E+07	No
116-DR-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,039	10,200	No
116-DR-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	336,163	512,000	No
116-DR-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	51	13	Yes
116-DR-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,348	19,100	No
116-DR-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	87	--	--
116-DR-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,213	3,210	No
116-DR-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	59,625	85,100	No
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	76,417	67,800	Yes
116-DR-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.25	1.1	No
116-DR-5_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.20	0.0084	Yes
116-DR-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.80	--	--
116-DR-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	29	--	--
116-DR-5_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.11	0.025	Yes
116-DR-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	0.18	Yes
116-DR-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.20	--	--
116-DR-5_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.77	1.1	No
116-DR-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.062	0.11	No
116-DR-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.74	1.1	No
116-DR-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.83E+06	1.18E+07	No
116-DR-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,551	20,000	No
116-DR-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,792	132,000	No
116-DR-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	146	--	--
116-DR-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--	--
116-DR-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	178	--	--

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-DR-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	246	1,510	No
116-DR-5_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	67	--	--
116-DR-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	25,436	18,500	Yes
116-DR-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	169	--	--
116-DR-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,533	15,700	No
116-DR-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	21,728	22,000	No
116-DR-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	250	--	--
116-DR-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	554	--	--
116-DR-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	38	--	--
116-DR-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.23E+07	3.26E+07	No
116-DR-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,907	10,200	No
116-DR-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	309,849	512,000	No
116-DR-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	48	13	Yes
116-DR-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	540	470	Yes
116-DR-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,850	19,100	No
116-DR-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	237	--	--
116-DR-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,812	3,210	No
116-DR-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	55,591	85,100	No
116-DR-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	45,492	67,800	No
116-DR-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.96	1.1	No
116-DR-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	0.0084	Yes
116-DR-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.5	--	--
116-DR-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	30	--	--
116-DR-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.12	0.025	Yes
116-DR-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	0.18	Yes
116-DR-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.20	--	--
116-DR-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	1.0	1.1	No
116-DR-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.42	0.11	Yes
116-DR-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.93	1.1	No
116-DR-5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.65E+06	1.18E+07	No
116-DR-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	20,000	No
116-DR-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	70,300	132,000	No
116-DR-5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	56	--	--
116-DR-5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	70	--	--
116-DR-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	1,510	No
116-DR-5_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	71	--	--
116-DR-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	3,890	No
116-DR-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,600	18,500	No
116-DR-5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	62	--	--
116-DR-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	15,700	No
116-DR-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	26,100	22,000	Yes
116-DR-5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	94	--	--
116-DR-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	361	--	--
116-DR-5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.31E+07	3.26E+07	No
116-DR-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,500	10,200	No
116-DR-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325,000	512,000	No
116-DR-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	13	Yes
116-DR-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,900	19,100	No
116-DR-5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	100	--	--
116-DR-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,274	3,210	No
116-DR-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	56,300	85,100	No
116-DR-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,400	67,800	No
116-DR-5_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.95	1.1	No
116-DR-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.53	--	--
116-DR-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.1	--	--
116-DR-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.30	--	--
116-DR-5_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.89	1.1	No
116-DR-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.76	1.1	No
116-DR-5_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	6.36E+06	1.18E+07	No
116-DR-5_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	2,837	20,000	No
116-DR-5_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	58,874	132,000	No
116-DR-5_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	110	1,510	No
116-DR-5_Staging Pile Area	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	62	--	--
116-DR-5_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	11,197	18,500	No
116-DR-5_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	7,808	15,700	No
116-DR-5_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	17,612	22,000	No
116-DR-5_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	427	--	--
116-DR-5_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	2.01E+07	3.26E+07	No
116-DR-5_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	2,929	10,200	No
116-DR-5_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	292,940	512,000	No
116-DR-5_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	24	13	Yes
116-DR-5_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	11,700	19,100	No
116-DR-5_Staging Pile Area	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,095	3,210	No
116-DR-5_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	51,250	85,100	No
116-DR-5_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	39,187	67,800	No
116-DR-5_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.14	1.1	No
116-DR-5_Staging Pile Area	Rad	Tritium	10028-17-8	pCi/g	0.20	--	--
116-DR-5_Staging Pile Area	Rad	Uranium-234	13966-29-5	pCi/g	0.72	1.1	No
116-DR-5_Staging Pile Area	Rad	Uranium-235	15117-96-1	pCi/g	0.11	0.11	No
116-DR-5_Staging Pile Area	Rad	Uranium-238	U-238	pCi/g	0.70	1.1	No
116-DR-6_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,369	3,210	No
116-DR-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.5	1.1	Yes
116-DR-6_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.31	0.0084	Yes
116-DR-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	14	--	--
116-DR-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4	0.033	Yes
116-DR-6_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	0.0038	Yes
116-DR-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.77	0.025	Yes
116-DR-6_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.1	0.18	Yes

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-DR-6_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.53	1.1	No
116-DR-6_Deep	Rad	Uranium-238	U-238	pCi/g	0.46	1.1	No
116-DR-6_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,417	3,210	No
116-DR-6_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.091	1.1	No
116-DR-6_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.48	--	--
116-DR-6_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.43	0.18	Yes
116-DR-6_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	1.1	No
116-DR-6_Shallow	Rad	Uranium-238	U-238	pCi/g	0.48	1.1	No
116-DR-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,586	3,210	No
116-DR-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.073	1.1	No
116-DR-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--	--
116-DR-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	1.1	No
116-DR-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.12	0.11	Yes
116-DR-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.51	1.1	No
116-DR-8_Overburden_2	non-Rad	Acetone	67-64-1	ug/kg	26	--	--
116-DR-8_Overburden_2	non-Rad	Antimony	7440-36-0	ug/kg	535	130	Yes
116-DR-8_Overburden_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,248	20,000	No
116-DR-8_Overburden_2	non-Rad	Barium	7440-39-3	ug/kg	51,821	132,000	No
116-DR-8_Overburden_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	77	--	--
116-DR-8_Overburden_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	46	--	--
116-DR-8_Overburden_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	95	--	--
116-DR-8_Overburden_2	non-Rad	Beryllium	7440-41-7	ug/kg	555	1,510	No
116-DR-8_Overburden_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	347	--	--
116-DR-8_Overburden_2	non-Rad	Chromium	7440-47-3	ug/kg	7,334	18,500	No
116-DR-8_Overburden_2	non-Rad	Chrysene	218-01-9	ug/kg	110	--	--
116-DR-8_Overburden_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,689	15,700	No
116-DR-8_Overburden_2	non-Rad	Copper	7440-50-8	ug/kg	13,745	22,000	No
116-DR-8_Overburden_2	non-Rad	Fluoranthene	206-44-0	ug/kg	180	--	--
116-DR-8_Overburden_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	--	--
116-DR-8_Overburden_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--	--
116-DR-8_Overburden_2	non-Rad	Lead	7439-92-1	ug/kg	3,831	10,200	No
116-DR-8_Overburden_2	non-Rad	Lithium	7439-93-2	ug/kg	6,086	13,300	No
116-DR-8_Overburden_2	non-Rad	Manganese	7439-96-5	ug/kg	323,773	512,000	No
116-DR-8_Overburden_2	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	--	--
116-DR-8_Overburden_2	non-Rad	Nickel	7440-02-0	ug/kg	11,376	19,100	No
116-DR-8_Overburden_2	non-Rad	Pyrene	129-00-0	ug/kg	120	--	--
116-DR-8_Overburden_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	898	3,210	No
116-DR-8_Overburden_2	non-Rad	Vanadium	7440-62-2	ug/kg	65,299	85,100	No
116-DR-8_Overburden_2	non-Rad	Zinc	7440-66-6	ug/kg	47,917	67,800	No
116-DR-8_Overburden_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.091	0.0038	Yes
116-DR-8_Overburden_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	0.18	Yes
116-DR-8_Overburden_2	Rad	Uranium-234	13966-29-5	pCi/g	0.28	1.1	No
116-DR-8_Overburden_2	Rad	Uranium-238	U-238	pCi/g	0.30	1.1	No
116-DR-8_Overburden_3	non-Rad	Acetone	67-64-1	ug/kg	8.6	--	--
116-DR-8_Overburden_3	non-Rad	Antimony	7440-36-0	ug/kg	747	130	Yes
116-DR-8_Overburden_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,507	20,000	No
116-DR-8_Overburden_3	non-Rad	Barium	7440-39-3	ug/kg	63,744	132,000	No
116-DR-8_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	1,958	1,510	Yes
116-DR-8_Overburden_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	133	--	--
116-DR-8_Overburden_3	non-Rad	Boron	7440-42-8	ug/kg	1,274	3,890	No
116-DR-8_Overburden_3	non-Rad	Cadmium	7440-43-9	ug/kg	78	563	No
116-DR-8_Overburden_3	non-Rad	Chromium	7440-47-3	ug/kg	9,365	18,500	No
116-DR-8_Overburden_3	non-Rad	Chrysene	218-01-9	ug/kg	30	--	--
116-DR-8_Overburden_3	non-Rad	Cobalt	7440-48-4	ug/kg	9,279	15,700	No
116-DR-8_Overburden_3	non-Rad	Copper	7440-50-8	ug/kg	13,021	22,000	No
116-DR-8_Overburden_3	non-Rad	Lead	7439-92-1	ug/kg	4,813	10,200	No
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	ug/kg	27,770	13,300	Yes
116-DR-8_Overburden_3	non-Rad	Manganese	7439-96-5	ug/kg	348,289	512,000	No
116-DR-8_Overburden_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	--	--
116-DR-8_Overburden_3	non-Rad	Molybdenum	7439-98-7	ug/kg	370	470	No
116-DR-8_Overburden_3	non-Rad	Nickel	7440-02-0	ug/kg	11,807	19,100	No
116-DR-8_Overburden_3	non-Rad	Pyrene	129-00-0	ug/kg	17	--	--
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	2,200	167	Yes
116-DR-8_Overburden_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	478	3,210	No
116-DR-8_Overburden_3	non-Rad	Vanadium	7440-62-2	ug/kg	70,346	85,100	No
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	72,846	67,800	Yes
116-DR-8_Overburden_3	Rad	Cesium-137	10045-97-3	pCi/g	0.11	1.1	No
116-DR-8_Overburden_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	0.18	Yes
116-DR-8_Overburden_3	Rad	Uranium-234	13966-29-5	pCi/g	0.15	1.1	No
116-DR-8_Overburden_3	Rad	Uranium-238	U-238	pCi/g	0.16	1.1	No
116-DR-8_Shallow	non-Rad	1,2-Dichlorobenzene	95-50-1	ug/kg	26	--	--
116-DR-8_Shallow	non-Rad	2,4,5-Trichlorophenol	95-95-4	ug/kg	10	--	--
116-DR-8_Shallow	non-Rad	2,4-Dichlorophenol	120-83-2	ug/kg	11	--	--
116-DR-8_Shallow	non-Rad	2-Chloronaphthalene	91-58-7	ug/kg	11	--	--
116-DR-8_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	--	--
116-DR-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	19	--	--
116-DR-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	531	130	Yes
116-DR-8_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,452	20,000	No
116-DR-8_Shallow	non-Rad	Barium	7440-39-3	ug/kg	65,315	132,000	No
116-DR-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--	--
116-DR-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	28	--	--
116-DR-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--	--
116-DR-8_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,024	1,510	No
116-DR-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	210	--	--
116-DR-8_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,783	3,890	No
116-DR-8_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,235	18,500	No
116-DR-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--	--
116-DR-8_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,776	15,700	No
116-DR-8_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,953	22,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-DR-8_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	25	--	--
116-DR-8_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	192	--	--
116-DR-8_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--	--
116-DR-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,208	10,200	No
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	70,444	13,300	Yes
116-DR-8_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,029	512,000	No
116-DR-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	9.5	13	No
116-DR-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--	--
116-DR-8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	640	470	Yes
116-DR-8_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,727	19,100	No
116-DR-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	19	--	--
116-DR-8_Shallow	non-Rad	Toluene	108-88-3	ug/kg	1.1	--	--
116-DR-8_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	585	3,210	No
116-DR-8_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	64,429	85,100	No
116-DR-8_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	50,213	67,800	No
116-DR-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.15	1.1	No
116-DR-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	0.18	Yes
116-DR-8_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.18	1.1	No
116-DR-8_Shallow	Rad	Uranium-238	U-238	pCi/g	0.20	1.1	No
116-DR-9_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	75	--	--
116-DR-9_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	123	--	--
116-DR-9_Deep	non-Rad	Chromium	7440-47-3	ug/kg	20,225	18,500	Yes
116-DR-9_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,100	10,200	No
116-DR-9_Deep	Rad	Cesium-137	10045-97-3	pCi/g	11	1.1	Yes
116-DR-9_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.7	0.0084	Yes
116-DR-9_Deep	Rad	Europium-152	14683-23-9	pCi/g	26	--	--
116-DR-9_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.5	0.033	Yes
116-DR-9_Deep	Rad	Nickel-63	13981-37-8	pCi/g	54	--	--
116-DR-9_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.33	0.025	Yes
116-DR-9_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	0.18	Yes
116-DR-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	16,093	18,500	No
116-DR-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	--	--
116-DR-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,838	10,200	No
116-DR-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	10	1.1	Yes
116-DR-9_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.044	0.0084	Yes
116-DR-9_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.43	--	--
116-DR-9_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.071	0.033	Yes
116-DR-9_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	5.0	--	--
116-DR-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.36	0.0038	Yes
116-DR-9_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.72	0.025	Yes
116-DR-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.26	0.18	Yes
118-D-1_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	5.68E+06	1.18E+07	No
118-D-1_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	2,356	20,000	No
118-D-1_Deep	non-Rad	Barium	7440-39-3	ug/kg	59,180	132,000	No
118-D-1_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	227	1,510	No
118-D-1_Deep	non-Rad	Boron	7440-42-8	ug/kg	2,100	3,890	No
118-D-1_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	56	563	No
118-D-1_Deep	non-Rad	Chromium	7440-47-3	ug/kg	7,521	18,500	No
118-D-1_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	10,247	15,700	No
118-D-1_Deep	non-Rad	Copper	7440-50-8	ug/kg	16,443	22,000	No
118-D-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	344	--	--
118-D-1_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	3.26E+07	No
118-D-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,445	10,200	No
118-D-1_Deep	non-Rad	Manganese	7439-96-5	ug/kg	312,532	512,000	No
118-D-1_Deep	non-Rad	Mercury	7439-97-6	ug/kg	18	13	Yes
118-D-1_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	288	470	No
118-D-1_Deep	non-Rad	Nickel	7440-02-0	ug/kg	10,508	19,100	No
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	18,960	--	--
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	59,000	--	--
118-D-1_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,165	3,210	No
118-D-1_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	74,430	85,100	No
118-D-1_Deep	non-Rad	Zinc	7440-66-6	ug/kg	48,322	67,800	No
118-D-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.10	1.1	No
118-D-1_Deep	Rad	Tritium	10028-17-8	pCi/g	0.081	--	--
118-D-1_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.74	1.1	No
118-D-1_Deep	Rad	Uranium-238	U-238	pCi/g	0.73	1.1	No
118-D-1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.71E+06	1.18E+07	No
118-D-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,014	20,000	No
118-D-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	69,918	132,000	No
118-D-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--	--
118-D-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	245	--	--
118-D-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,233	3,890	No
118-D-1_Overburden	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	110	--	--
118-D-1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	65	563	No
118-D-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,001	18,500	No
118-D-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,318	15,700	No
118-D-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	15,107	22,000	No
118-D-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	397	--	--
118-D-1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.00E+07	3.26E+07	No
118-D-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,919	10,200	No
118-D-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306,161	512,000	No
118-D-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	7.3	13	No
118-D-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	760	470	Yes
118-D-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,640	19,100	No
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	870	--	--
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,300	--	--
118-D-1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,197	3,210	No
118-D-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50,373	85,100	No
118-D-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,461	67,800	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-D-1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.080	1.1	No
118-D-1_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.041	--	--
118-D-1_Overburden	Rad	Uranium-234	13966-29-5	pCi/g	0.75	1.1	No
118-D-1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.74	1.1	No
118-D-1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.52E+06	1.18E+07	No
118-D-1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,632	20,000	No
118-D-1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	60,015	132,000	No
118-D-1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	230	1,510	No
118-D-1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,700	3,890	No
118-D-1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	44	563	No
118-D-1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	9,458	18,500	No
118-D-1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,736	15,700	No
118-D-1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	16,752	22,000	No
118-D-1_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	--	--
118-D-1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	3.26E+07	No
118-D-1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	3,664	10,200	No
118-D-1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	288,049	512,000	No
118-D-1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	17	13	Yes
118-D-1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	320	470	No
118-D-1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,504	19,100	No
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,471	--	--
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,642	--	--
118-D-1_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,395	3,210	No
118-D-1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	59,298	85,100	No
118-D-1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	41,624	67,800	No
118-D-1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.039	1.1	No
118-D-1_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	1.1	--	--
118-D-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.73	--	--
118-D-1_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.80	1.1	No
118-D-1_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.80	1.1	No
118-D-1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	7.25E+06	1.18E+07	No
118-D-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,467	20,000	No
118-D-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	71,721	132,000	No
118-D-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	141	1,510	No
118-D-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,207	3,890	No
118-D-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	72	563	No
118-D-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	10,857	18,500	No
118-D-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	8,554	15,700	No
118-D-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	16,263	22,000	No
118-D-1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	2.16E+07	3.26E+07	No
118-D-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	4,866	10,200	No
118-D-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	319,582	512,000	No
118-D-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	13	13	Yes
118-D-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	13,106	19,100	No
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,382	--	--
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	13,056	--	--
118-D-1_Shallow_5	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	729	3,210	No
118-D-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	55,100	85,100	No
118-D-1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	42,151	67,800	No
118-D-1_Shallow_5	Rad	Cesium-137	10045-97-3	pCi/g	0.059	1.1	No
118-D-1_Shallow_5	Rad	Tritium	10028-17-8	pCi/g	0.030	--	--
118-D-1_Shallow_5	Rad	Uranium-234	13966-29-5	pCi/g	0.20	1.1	No
118-D-1_Shallow_5	Rad	Uranium-238	U-238	pCi/g	0.19	1.1	No
118-D-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.35E+06	1.18E+07	No
118-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,600	20,000	No
118-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	64,100	132,000	No
118-D-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	240	1,510	No
118-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	3,890	No
118-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	89	563	No
118-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,700	18,500	No
118-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	15,700	No
118-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	22,000	No
118-D-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	261	--	--
118-D-1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	3.26E+07	No
118-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,400	10,200	No
118-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	293,000	512,000	No
118-D-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	11	13	No
118-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,200	19,100	No
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	--	--
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,000	--	--
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	5,090	3,210	Yes
118-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,500	85,100	No
118-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,700	67,800	No
118-D-1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.26	1.1	No
118-D-1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.14	0.18	No
118-D-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.050	--	--
118-D-1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.5	1.1	Yes
118-D-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.7	1.1	Yes
118-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	8.15E+06	1.18E+07	No
118-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,695	20,000	No
118-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	75,217	132,000	No
118-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	193	1,510	No
118-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--	--
118-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,317	3,890	No
118-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10,490	18,500	No
118-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	7,233	15,700	No
118-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	19,109	22,000	No
118-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.04E+07	3.26E+07	No
118-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	3,614	10,200	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	284,458	512,000	No
118-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	6.0	13	No
118-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	310	470	No
118-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	12,366	19,100	No
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,800	--	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,400	--	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,320	3,210	No
118-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	85,100	No
118-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	38,513	67,800	No
118-D-1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	0.37	--	--
118-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	1.3	--	--
118-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.78	1.1	No
118-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.78	1.1	No
118-D-4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,133	20,000	No
118-D-4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	75,116	132,000	No
118-D-4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	277	1,510	No
118-D-4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,546	3,890	No
118-D-4_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	200	563	No
118-D-4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,931	18,500	No
118-D-4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,560	15,700	No
118-D-4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,932	22,000	No
118-D-4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,760	10,200	No
118-D-4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	352,925	512,000	No
118-D-4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	13	Yes
118-D-4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	500	470	Yes
118-D-4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	13,144	19,100	No
118-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,797	3,210	No
118-D-4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,686	85,100	No
118-D-4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	47,811	67,800	No
118-D-4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.033	1.1	No
118-D-4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	1.1	No
118-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.60	1.1	No
118-D-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	2,400	130	Yes
118-D-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,983	20,000	No
118-D-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	70,991	132,000	No
118-D-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	231	1,510	No
118-D-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,189	3,890	No
118-D-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	398	563	No
118-D-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,377	18,500	No
118-D-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,104	15,700	No
118-D-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,592	22,000	No
118-D-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,908	10,200	No
118-D-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	342,788	512,000	No
118-D-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	66	13	Yes
118-D-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	582	470	Yes
118-D-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	12,565	19,100	No
118-D-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,042	3,210	No
118-D-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	80,969	85,100	No
118-D-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	59,118	67,800	No
118-D-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.38	1.1	No
118-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--	--
118-D-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--	--
118-D-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.31	0.025	Yes
118-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	0.18	Yes
118-D-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.58	1.1	No
118-D-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.69	1.1	No
118-D-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	900	130	Yes
118-D-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	20,000	No
118-D-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	77,300	132,000	No
118-D-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	200	1,510	No
118-D-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	3,890	No
118-D-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	563	No
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	48,100	18,500	Yes
118-D-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,000	15,700	No
118-D-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,500	22,000	No
118-D-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	--	--
118-D-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,700	10,200	No
118-D-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	399,000	512,000	No
118-D-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	58	13	Yes
118-D-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	470	Yes
118-D-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	27,300	19,100	Yes
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	5,460	--	--
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,500	--	--
118-D-4_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,221	3,210	No
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	92,400	85,100	Yes
118-D-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	59,600	67,800	No
118-D-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	1.1	No
118-D-4_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.45	--	--
118-D-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.50	1.1	No
118-D-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.75	1.1	No
118-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	562	130	Yes
118-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,763	20,000	No
118-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	56,468	132,000	No
118-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	655	1,510	No
118-D-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	77	563	No
118-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	8,598	18,500	No
118-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	9,245	15,700	No
118-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	12,493	22,000	No
118-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	218	--	--

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,716	10,200	No
118-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	275,204	512,000	No
118-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	41	13	Yes
118-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	370	470	No
118-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	12,132	19,100	No
118-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	50,941	85,100	No
118-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	40,220	67,800	No
118-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	0.18	Yes
118-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	442	130	Yes
118-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,660	20,000	No
118-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,858	132,000	No
118-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	672	1,510	No
118-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,500	3,890	No
118-D-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	76	563	No
118-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,937	18,500	No
118-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,628	15,700	No
118-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	12,558	22,000	No
118-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	235	--	--
118-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	3,611	10,200	No
118-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	281,367	512,000	No
118-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.6	13	No
118-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	950	470	Yes
118-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,850	19,100	No
118-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,073	85,100	No
118-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	41,881	67,800	No
118-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	20	--	--
118-D-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	0.18	Yes
118-D-5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	440	130	Yes
118-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,500	20,000	No
118-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,000	132,000	No
118-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	930	1,510	No
118-D-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	54	563	No
118-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	8,500	18,500	No
118-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,800	15,700	No
118-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,000	22,000	No
118-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,400	10,200	No
118-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	512,000	No
118-D-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.1	13	No
118-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	320	470	No
118-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,000	19,100	No
118-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,000	85,100	No
118-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,000	67,800	No
118-D-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.1	0.0084	Yes
118-D-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	113	--	--
118-D-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.15	--	--
118-D-6:4_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	6.36E+06	1.18E+07	No
118-D-6:4_Deep	non-Rad	Antimony	7440-36-0	ug/kg	660	130	Yes
118-D-6:4_Deep	non-Rad	Aroclor-1254	11097-69-1	ug/kg	4.9	--	--
118-D-6:4_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	1,992	20,000	No
118-D-6:4_Deep	non-Rad	Barium	7440-39-3	ug/kg	67,113	132,000	No
118-D-6:4_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	161	1,510	No
118-D-6:4_Deep	non-Rad	Boron	7440-42-8	ug/kg	910	3,890	No
118-D-6:4_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	570	563	Yes
118-D-6:4_Deep	non-Rad	Chromium	7440-47-3	ug/kg	29,454	18,500	Yes
118-D-6:4_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	9,339	15,700	No
118-D-6:4_Deep	non-Rad	Copper	7440-50-8	ug/kg	22,244	22,000	Yes
118-D-6:4_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	841	--	--
118-D-6:4_Deep	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	3.26E+07	No
118-D-6:4_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,622	10,200	No
118-D-6:4_Deep	non-Rad	Manganese	7439-96-5	ug/kg	322,763	512,000	No
118-D-6:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	169	13	Yes
118-D-6:4_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	280	470	No
118-D-6:4_Deep	non-Rad	Nickel	7440-02-0	ug/kg	10,843	19,100	No
118-D-6:4_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,393	3,210	No
118-D-6:4_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	72,616	85,100	No
118-D-6:4_Deep	non-Rad	Zinc	7440-66-6	ug/kg	49,497	67,800	No
118-D-6:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	29	1.1	Yes
118-D-6:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.6	--	--
118-D-6:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	0.025	Yes
118-D-6:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.99	0.18	Yes
118-D-6:4_Deep	Rad	Tritium	10028-17-8	pCi/g	0.026	--	--
118-D-6:4_Deep	Rad	Uranium-234	13966-29-5	pCi/g	0.76	1.1	No
118-D-6:4_Deep	Rad	Uranium-238	U-238	pCi/g	0.80	1.1	No
118-D-6:4_Deep_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.67E+06	1.18E+07	No
118-D-6:4_Deep_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	73	--	--
118-D-6:4_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,900	20,000	No
118-D-6:4_Deep_Focused	non-Rad	Barium	7440-39-3	ug/kg	91,400	132,000	No
118-D-6:4_Deep_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	380	1,510	No
118-D-6:4_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,600	563	Yes
118-D-6:4_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	64,800	18,500	Yes
118-D-6:4_Deep_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	15,700	No
118-D-6:4_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	56,600	22,000	Yes
118-D-6:4_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,640	--	--
118-D-6:4_Deep_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.84E+07	3.26E+07	No
118-D-6:4_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,500	10,200	No
118-D-6:4_Deep_Focused	non-Rad	Manganese	7439-96-5	ug/kg	356,000	512,000	No
118-D-6:4_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	380	13	Yes
118-D-6:4_Deep_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	290	470	No
118-D-6:4_Deep_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	19,100	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-D-6:4_Deep_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,855	3,210	No
118-D-6:4_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,800	85,100	Yes
118-D-6:4_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	148,000	67,800	Yes
118-D-6:4_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.29	--	--
118-D-6:4_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	85	1.1	Yes
118-D-6:4_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.63	0.0084	Yes
118-D-6:4_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	17	--	--
118-D-6:4_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.0	0.033	Yes
118-D-6:4_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	37	--	--
118-D-6:4_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.3	0.025	Yes
118-D-6:4_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	0.18	Yes
118-D-6:4_Deep_Focused	Rad	Tritium	10028-17-8	pCi/g	0.056	--	--
118-D-6:4_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.2	1.1	Yes
118-D-6:4_Deep_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.27	0.11	Yes
118-D-6:4_Deep_Focused	Rad	Uranium-238	U-238	pCi/g	0.92	1.1	No
118-D-6:4_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	5.55E+06	1.18E+07	No
118-D-6:4_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.9	--	--
118-D-6:4_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,091	20,000	No
118-D-6:4_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	62,434	132,000	No
118-D-6:4_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	247	1,510	No
118-D-6:4_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,800	3,890	No
118-D-6:4_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	95	563	No
118-D-6:4_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	7,251	18,500	No
118-D-6:4_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	9,140	15,700	No
118-D-6:4_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,162	22,000	No
118-D-6:4_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	403	--	--
118-D-6:4_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.62E+07	3.26E+07	No
118-D-6:4_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	13,267	10,200	Yes
118-D-6:4_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	323,193	512,000	No
118-D-6:4_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	31	13	Yes
118-D-6:4_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	312	470	No
118-D-6:4_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,531	19,100	No
118-D-6:4_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	630	167	Yes
118-D-6:4_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,982	3,210	No
118-D-6:4_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	77,927	85,100	No
118-D-6:4_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	49,762	67,800	No
118-D-6:4_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.071	1.1	No
118-D-6:4_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.034	--	--
118-D-6:4_Shallow_1	Rad	Uranium-234	13966-29-5	pCi/g	0.66	1.1	No
118-D-6:4_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.67	1.1	No
118-D-6:4_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	1.18E+07	No
118-D-6:4_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	21	--	--
118-D-6:4_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.8	--	--
118-D-6:4_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,057	20,000	No
118-D-6:4_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	67,362	132,000	No
118-D-6:4_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	274	1,510	No
118-D-6:4_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	62	563	No
118-D-6:4_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,050	18,500	No
118-D-6:4_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	8,093	15,700	No
118-D-6:4_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	21,766	22,000	No
118-D-6:4_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	559	--	--
118-D-6:4_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.40E+07	3.26E+07	No
118-D-6:4_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	5,072	10,200	No
118-D-6:4_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	328,312	512,000	No
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1,200	13	Yes
118-D-6:4_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	285	470	No
118-D-6:4_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,571	19,100	No
118-D-6:4_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,344	3,210	Yes
118-D-6:4_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	68,233	85,100	No
118-D-6:4_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	46,961	67,800	No
118-D-6:4_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.9	1.1	Yes
118-D-6:4_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	1.4	--	--
118-D-6:4_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.21	0.025	Yes
118-D-6:4_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	0.18	Yes
118-D-6:4_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0.073	--	--
118-D-6:4_Shallow_2	Rad	Uranium-234	13966-29-5	pCi/g	0.93	1.1	No
118-D-6:4_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.1	1.1	Yes
118-DR-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.22E+06	1.18E+07	No
118-DR-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,230	20,000	No
118-DR-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56,291	132,000	No
118-DR-1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	1,045	1,510	No
118-DR-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,226	3,890	No
118-DR-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	58	563	No
118-DR-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,080	18,500	No
118-DR-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,720	15,700	No
118-DR-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,464	22,000	No
118-DR-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	248	--	--
118-DR-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,014	10,200	No
118-DR-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284,561	512,000	No
118-DR-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	7.2	13	No
118-DR-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,930	19,100	No
118-DR-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	54,964	85,100	No
118-DR-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	41,444	67,800	No
118-DR-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.11	1.1	No
118-DR-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.77	0.0084	Yes
118-DR-1_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	124	--	--
118-DR-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.70E+06	1.18E+07	No
118-DR-1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,500	130	Yes

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value:

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-DR-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	20,000	No
118-DR-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,000	132,000	No
118-DR-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--	--
118-DR-1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	480	1,510	No
118-DR-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	3,890	No
118-DR-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	79	563	No
118-DR-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,300	18,500	No
118-DR-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,600	15,700	No
118-DR-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,000	22,000	No
118-DR-1_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	0.49	--	--
118-DR-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,700	10,200	No
118-DR-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	512,000	No
118-DR-1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	6.4	13	No
118-DR-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,200	19,100	No
118-DR-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54,000	85,100	No
118-DR-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,000	67,800	No
118-DR-1_Shallow_Focused	Rad	Ceslum-137	10045-97-3	pCi/g	0.050	1.1	No
118-DR-1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	9.7	--	--
118-DR-2:2_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	512	--	--
118-DR-2:2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,713	18,500	No
118-DR-2:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	--	--
118-DR-2:2_Deep	non-Rad	Lead	7439-92-1	ug/kg	3,500	10,200	No
118-DR-2:2_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	13	Yes
118-DR-2:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,166	3,210	No
118-DR-2:2_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.12	--	--
118-DR-2:2_Deep	Rad	Carbon-14	14762-75-5	pCi/g	9.4	--	--
118-DR-2:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	12	1.1	Yes
118-DR-2:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	4.3	0.0084	Yes
118-DR-2:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.8	--	--
118-DR-2:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.94	0.033	Yes
118-DR-2:2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	47	--	--
118-DR-2:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.2	0.025	Yes
118-DR-2:2_Deep	Rad	Technetium-99	14133-76-7	pCi/g	1.1	--	--
118-DR-2:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.46	1.1	No
118-DR-2:2_Deep	Rad	Uranium-235	15117-96-1	pCi/g	0.079	0.11	No
118-DR-2:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.39	1.1	No
118-DR-2:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	34	--	--
118-DR-2:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,200	20,000	No
118-DR-2:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,900	132,000	No
118-DR-2:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,700	18,500	No
118-DR-2:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	699	--	--
118-DR-2:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,112	10,200	No
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164	13	Yes
118-DR-2:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,474	3,210	No
118-DR-2:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.51	1.1	No
118-DR-2:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	0.0084	Yes
118-DR-2:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.45	--	--
118-DR-2:2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.8	--	--
118-DR-2:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.18	0.025	Yes
118-DR-2:2_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	2.4	--	--
118-DR-2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.88	0.18	Yes
118-DR-2:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	1.1	No
118-DR-2:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.50	1.1	No
120-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	720	130	Yes
120-D-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,310	20,000	No
120-D-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	73,265	132,000	No
120-D-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	251	1,510	No
120-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,704	3,890	No
120-D-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	117	563	No
120-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,075	18,500	No
120-D-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	9,385	15,700	No
120-D-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,512	22,000	No
120-D-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	--	--
120-D-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,162	10,200	No
120-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	339,488	512,000	No
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	111	13	Yes
120-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	605	470	Yes
120-D-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,826	19,100	No
120-D-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	9,910	52,000	No
120-D-2_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	554	--	--
120-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	77,181	85,100	No
120-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,904	67,800	No
120-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	20,000	No
120-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	61,900	132,000	No
120-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	310	1,510	No
120-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,000	3,890	No
120-D-2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	160	563	No
120-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	4,500	18,500	No
120-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,300	15,700	No
120-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	22,000	No
120-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,700	10,200	No
120-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	316,000	512,000	No
120-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	560	470	Yes
120-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,800	19,100	No
120-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	80,200	85,100	No
120-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	48,800	67,800	No
122-DR-1:2_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	20,000	No
122-DR-1:2_Deep	non-Rad	Barium	7440-39-3	ug/kg	58,500	132,000	No
122-DR-1:2_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--	--

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
122-DR-1:2_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	150	--	--
122-DR-1:2_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	210	563	No
122-DR-1:2_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,700	18,500	No
122-DR-1:2_Deep	non-Rad	Chrysene	218-01-9	ug/kg	22	--	--
122-DR-1:2_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	49	--	--
122-DR-1:2_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,200	10,200	No
122-DR-1:2_Deep	non-Rad	Lithium	7439-93-2	ug/kg	10,000	13,300	No
122-DR-1:2_Deep	non-Rad	Pyrene	129-00-0	ug/kg	51	--	--
122-DR-1:2_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,926	3,210	No
122-DR-1:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.049	1.1	No
122-DR-1:2_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.62	1.1	No
122-DR-1:2_Deep	Rad	Uranium-238	U-238	pCi/g	0.65	1.1	No
122-DR-1:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,100	20,000	No
122-DR-1:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,900	132,000	No
122-DR-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	66	--	--
122-DR-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--	--
122-DR-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	36	--	--
122-DR-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--	--
122-DR-1:2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--	--
122-DR-1:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	190	563	No
122-DR-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,900	18,500	No
122-DR-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	55	--	--
122-DR-1:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	19	--	--
122-DR-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	110	--	--
122-DR-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	7,400	10,200	No
122-DR-1:2_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	12,500	13,300	No
122-DR-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	100	--	--
122-DR-1:2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,941	3,210	No
122-DR-1:2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.063	1.1	No
122-DR-1:2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	1.1	No
122-DR-1:2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.65	1.1	No
126-D-2_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.2	--	--
126-D-2_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--	--
126-D-2_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	130	Yes
126-D-2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,644	20,000	No
126-D-2_Overburden	non-Rad	Barium	7440-39-3	ug/kg	81,680	132,000	No
126-D-2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.8	--	--
126-D-2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--	--
126-D-2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	10	--	--
126-D-2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.0	--	--
126-D-2_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	802	1,510	No
126-D-2_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,077	3,890	No
126-D-2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	7,899	18,500	No
126-D-2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	16	--	--
126-D-2_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,810	15,700	No
126-D-2_Overburden	non-Rad	Copper	7440-50-8	ug/kg	12,860	22,000	No
126-D-2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	16	--	--
126-D-2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	3,586	10,200	No
126-D-2_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,316	512,000	No
126-D-2_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	9.4	13	No
126-D-2_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	334	470	No
126-D-2_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,525	19,100	No
126-D-2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	27	--	--
126-D-2_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	61,720	85,100	No
126-D-2_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	41,994	67,800	No
126-D-2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	7.2	--	--
126-D-2_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	95	--	--
126-D-2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.57	--	--
126-D-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	13	--	--
126-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	577	130	Yes
126-D-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.3	--	--
126-D-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,826	20,000	No
126-D-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	86,325	132,000	No
126-D-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	14	--	--
126-D-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--	--
126-D-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	23	--	--
126-D-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--	--
126-D-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	761	1,510	No
126-D-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	188	--	--
126-D-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,042	3,890	No
126-D-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	43	563	No
126-D-2_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.45	--	--
126-D-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,872	18,500	No
126-D-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	38	--	--
126-D-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,752	15,700	No
126-D-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,151	22,000	No
126-D-2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--	--
126-D-2_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	0.42	--	--
126-D-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	58	--	--
126-D-2_Shallow	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	7.8	--	--
126-D-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.0	--	--
126-D-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,229	10,200	No
126-D-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	354,940	512,000	No
126-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	17	13	Yes
126-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	317	470	No
126-D-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	14	--	--
126-D-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,613	19,100	No
126-D-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	37	--	--
126-D-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	78,289	85,100	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
126-D-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,412	67,800	No
126-D-2_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	92	--	--
126-D-2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	--	--
126-D-2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	75	--	--
126-D-2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	240	--	--
126-D-2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	9.2	--	--
126-D-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	620	130	Yes
126-D-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.0	--	--
126-D-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,000	20,000	No
126-D-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	120,000	132,000	No
126-D-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	35	--	--
126-D-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	35	--	--
126-D-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--	--
126-D-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--	--
126-D-2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	630	1,510	No
126-D-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,280	--	--
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	7,900	3,890	Yes
126-D-2_Shallow_Focused	non-Rad	Chlordane	57-74-9	ug/kg	0.31	--	--
126-D-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,800	18,500	No
126-D-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	23	--	--
126-D-2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	9,700	15,700	No
126-D-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,000	22,000	No
126-D-2_Shallow_Focused	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.39	--	--
126-D-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	221	--	--
126-D-2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	63	--	--
126-D-2_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	5.8	--	--
126-D-2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--	--
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	72,000	10,200	Yes
126-D-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	512,000	No
126-D-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	23	13	Yes
126-D-2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	0.86	--	--
126-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	330	470	No
126-D-2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	105	--	--
126-D-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	19,100	No
126-D-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	64	--	--
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	69,000	--	--
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	160,000	--	--
126-D-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	76,000	85,100	No
126-D-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	50,000	67,800	No
128-D-2_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.51	--	--
128-D-2_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	9.2	--	--
128-D-2_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.20E+06	1.18E+07	No
128-D-2_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	36	--	--
128-D-2_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	2,904	20,000	No
128-D-2_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	82,983	132,000	No
128-D-2_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	77	--	--
128-D-2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--	--
128-D-2_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	205	1,510	No
128-D-2_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	81	--	--
128-D-2_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,817	3,890	No
128-D-2_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	59	563	No
128-D-2_Shallow_1	non-Rad	Chloroform	67-66-3	ug/kg	0.87	--	--
128-D-2_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,003	18,500	No
128-D-2_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,525	15,700	No
128-D-2_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,094	22,000	No
128-D-2_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	400	--	--
128-D-2_Shallow_1	non-Rad	Ethylbenzene	100-41-4	ug/kg	0.64	--	--
128-D-2_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.26E+07	No
128-D-2_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,793	10,200	No
128-D-2_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	341,770	512,000	No
128-D-2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	41	13	Yes
128-D-2_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.1	--	--
128-D-2_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	310	470	No
128-D-2_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,887	19,100	No
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,100	780	Yes
128-D-2_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	1.4	--	--
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,691	--	--
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	16,599	--	--
128-D-2_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	53,369	85,100	No
128-D-2_Shallow_1	non-Rad	Xylenes (total)	1330-20-7	ug/kg	2.7	--	--
128-D-2_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	45,366	67,800	No
128-D-2_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.24	1.1	No
128-D-2_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	--	--
128-D-2_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	5.67E+06	1.18E+07	No
128-D-2_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,318	20,000	No
128-D-2_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	62,231	132,000	No
128-D-2_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	147	1,510	No
128-D-2_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,200	3,890	No
128-D-2_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	132	563	No
128-D-2_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,153	18,500	No
128-D-2_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,447	15,700	No
128-D-2_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,949	22,000	No
128-D-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	--	--
128-D-2_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.86E+07	3.26E+07	No
128-D-2_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,494	10,200	No
128-D-2_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	277,702	512,000	No
128-D-2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	18	13	Yes
128-D-2_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--	--
128-D-2_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	263	470	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Value

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
128-D-2_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,947	19,100	No
128-D-2_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	190	167	Yes
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,500	--	--
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,300	--	--
128-D-2_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	85,100	No
128-D-2_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	36,765	67,800	No
128-D-2_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.24	0.18	Yes
130-D-1_Shallow	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	0.88	--	--
130-D-1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--	--
130-D-1_Shallow	non-Rad	Acetone	67-64-1	ug/kg	13	--	--
130-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.59E+06	1.18E+07	No
130-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	24	--	--
130-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,031	20,000	No
130-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	72,121	132,000	No
130-D-1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--	--
130-D-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	16	--	--
130-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	69	--	--
130-D-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--	--
130-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	51	--	--
130-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,642	3,890	No
130-D-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	81	563	No
130-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	7,452	18,500	No
130-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	43	--	--
130-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,789	15,700	No
130-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,835	22,000	No
130-D-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	63	--	--
130-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.20E+07	3.26E+07	No
130-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,060	10,200	No
130-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	306,041	512,000	No
130-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	11	13	No
130-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--	--
130-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	273	470	No
130-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,744	19,100	No
130-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	56	--	--
130-D-1_Shallow	non-Rad	Toluene	108-88-3	ug/kg	2.7	--	--
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,333	--	--
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	9,898	--	--
130-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	51,859	85,100	No
130-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	52,218	67,800	No
130-D-1_Shallow_Focused	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.9	--	--
130-D-1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	4.68E+06	1.18E+07	No
130-D-1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,600	20,000	No
130-D-1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	59,600	132,000	No
130-D-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--	--
130-D-1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	3,890	No
130-D-1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	73	563	No
130-D-1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,200	18,500	No
130-D-1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	11,400	15,700	No
130-D-1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,800	22,000	No
130-D-1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.50E+07	3.26E+07	No
130-D-1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	3,200	10,200	No
130-D-1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	305,000	512,000	No
130-D-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.2	--	--
130-D-1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	280	470	No
130-D-1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,100	19,100	No
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	64,000	--	--
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	110,000	--	--
130-D-1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	82,200	85,100	No
130-D-1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	43,900	67,800	No
130-D-1_Staging Pile Area Footprint	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.0	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	1.09E+07	1.18E+07	No
130-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	2,871	20,000	No
130-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	102,565	132,000	No
130-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	142	1,510	No
130-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,900	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2,148	3,890	No
130-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	128	563	No
130-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	13,222	18,500	No
130-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	29	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	8,624	15,700	No
130-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	18,874	22,000	No
130-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	45	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.11E+07	3.26E+07	No
130-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	7,527	10,200	No
130-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	379,422	512,000	No
130-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	10	13	No
130-D-1_Staging Pile Area Footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	300	470	No
130-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	14,522	19,100	No
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,162	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	18,492	--	--
130-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	43,839	85,100	No
130-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	45,473	67,800	No
132-D-1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.09E+06	1.18E+07	No
132-D-1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	6.3	--	--
132-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	230	--	--
132-D-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,758	20,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
132-D-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	63,595	132,000	No
132-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.0	--	--
132-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--	--
132-D-1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,150	3,890	No
132-D-1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	62	563	No
132-D-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,667	18,500	No
132-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.9	--	--
132-D-1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,535	15,700	No
132-D-1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	16,707	22,000	No
132-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	164	--	--
132-D-1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.51E+07	3.26E+07	No
132-D-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	5,177	10,200	No
132-D-1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	314,188	512,000	No
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1,000	13	Yes
132-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	580	470	Yes
132-D-1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,451	19,100	No
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	860	780	Yes
132-D-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,092	3,210	No
132-D-1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	69,877	85,100	No
132-D-1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,502	67,800	No
132-D-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--	--
132-D-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.14	1.1	No
132-D-1_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.84	--	--
132-D-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.23	1.1	No
132-D-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.22	1.1	No
132-D-1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.07E+06	1.18E+07	No
132-D-1_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	39	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	35	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	18	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,513	20,000	No
132-D-1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	65,825	132,000	No
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	225	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	174	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	161	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	59	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	49	1,510	No
132-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,225	3,890	No
132-D-1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	91	563	No
132-D-1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	8,496	18,500	No
132-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	193	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	9,154	15,700	No
132-D-1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	16,081	22,000	No
132-D-1_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	54	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	44	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	402	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	68	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.26E+07	No
132-D-1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	6,740	10,200	No
132-D-1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	299,873	512,000	No
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	680	13	Yes
132-D-1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	240	470	No
132-D-1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,761	19,100	No
132-D-1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	439	--	--
132-D-1_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	481	3,210	No
132-D-1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	57,749	85,100	No
132-D-1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	48,544	67,800	No
132-D-1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.59	1.1	No
132-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	0.065	--	--
132-D-1_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.21	1.1	No
132-D-1_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.19	1.1	No
1607-D1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.99E+06	1.18E+07	No
1607-D1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,396	20,000	No
1607-D1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	64,671	132,000	No
1607-D1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	228	1,510	No
1607-D1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--	--
1607-D1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,325	3,890	No
1607-D1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	79	563	No
1607-D1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,828	18,500	No
1607-D1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	5,717	15,700	No
1607-D1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,881	22,000	No
1607-D1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.64E+07	3.26E+07	No
1607-D1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,020	10,200	No
1607-D1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	273,291	512,000	No
1607-D1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	6.7	13	No
1607-D1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,264	19,100	No
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,367	--	--
1607-D1_Shallow_1	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,650	--	--
1607-D1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	38,625	85,100	No
1607-D1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	35,700	67,800	No
1607-D1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	7.64E+06	1.18E+07	No
1607-D1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,837	20,000	No
1607-D1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	67,938	132,000	No
1607-D1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	245	1,510	No
1607-D1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,248	3,890	No
1607-D1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	78	563	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
1607-D1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	13,336	18,500	No
1607-D1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,679	15,700	No
1607-D1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,123	22,000	No
1607-D1_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	990	2,810	No
1607-D1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.63E+07	3.26E+07	No
1607-D1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,186	10,200	No
1607-D1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	282,971	512,000	No
1607-D1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	8.0	13	No
1607-D1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,792	19,100	No
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	940	--	--
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,444	--	--
1607-D1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	37,046	85,100	No
1607-D1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	35,077	67,800	No
1607-D1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.32E+06	1.18E+07	No
1607-D1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,400	20,000	No
1607-D1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	84,000	132,000	No
1607-D1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	240	1,510	No
1607-D1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,400	3,890	No
1607-D1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	86	563	No
1607-D1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,400	18,500	No
1607-D1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	15,700	No
1607-D1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,300	22,000	No
1607-D1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.53E+07	3.26E+07	No
1607-D1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,000	10,200	No
1607-D1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273,000	512,000	No
1607-D1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	18	13	Yes
1607-D1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,900	19,100	No
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,500	--	--
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,600	--	--
1607-D1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	34,500	85,100	No
1607-D1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	34,200	67,800	No
1607-D1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	7.18E+06	1.18E+07	No
1607-D1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--	--
1607-D1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,159	20,000	No
1607-D1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	61,878	132,000	No
1607-D1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	224	1,510	No
1607-D1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--	--
1607-D1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	77	563	No
1607-D1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	11,971	18,500	No
1607-D1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,119	15,700	No
1607-D1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	13,304	22,000	No
1607-D1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	3.26E+07	No
1607-D1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	4,179	10,200	No
1607-D1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	268,018	512,000	No
1607-D1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	15	13	Yes
1607-D1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	260	470	No
1607-D1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	11,512	19,100	No
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,900	--	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,226	--	--
1607-D1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	39,210	85,100	No
1607-D1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	34,383	67,800	No
1607-D2-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	1,100	20,000	No
1607-D2-1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	62,400	132,000	No
1607-D2-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	5,900	18,500	No
1607-D2-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	1,900	10,200	No
1607-D2-1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,268	3,210	No
1607-D2-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.050	--	--
1607-D2-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	0.0038	Yes
1607-D2-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.38	0.025	Yes
1607-D2-1_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.67	1.1	No
1607-D2-1_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.046	0.11	No
1607-D2-1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.76	1.1	No
1607-D2-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,211	130	Yes
1607-D2-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	447	--	--
1607-D2-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	157	--	--
1607-D2-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,481	20,000	No
1607-D2-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	249,126	132,000	Yes
1607-D2-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	343	1,510	No
1607-D2-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,842	3,890	No
1607-D2-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	378	563	No
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,771	18,500	Yes
1607-D2-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,840	15,700	No
1607-D2-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	25,777	22,000	Yes
1607-D2-2_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	1,700	2,810	No
1607-D2-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	--	--
1607-D2-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,699	10,200	No
1607-D2-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	344,089	512,000	No
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	484	13	Yes
1607-D2-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	643	470	Yes
1607-D2-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13,309	19,100	No
1607-D2-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	204,415	52,000	Yes
1607-D2-2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	55,960	--	--
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	11,800	167	Yes
1607-D2-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,789	3,210	No
1607-D2-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	68,020	85,100	No
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	91,971	67,800	Yes
1607-D2-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.35	1.1	No
1607-D2-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.86	1.1	No
1607-D2-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.94	1.1	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
1607-D2-3_Overburden	non-Rad	Barium	7440-39-3	ug/kg	55,845	132,000	No
1607-D2-3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,597	18,500	No
1607-D2-3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	5,700	10,200	No
1607-D2-3_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.17	1.1	No
1607-D2-3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.075	0.0084	Yes
1607-D2-3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.60	--	--
1607-D2-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88,075	132,000	No
1607-D2-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	25	--	--
1607-D2-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,576	18,500	No
1607-D2-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,939	10,200	No
1607-D2-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	31	13	Yes
1607-D2-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.050	1.1	No
1607-D2-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--	--
1607-D2-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	60,300	132,000	No
1607-D2-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	6,100	18,500	No
1607-D2-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	4,000	10,200	No
1607-D2-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,340	3,210	No
1607-D2-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.037	--	--
1607-D2-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.53	1.1	No
1607-D2-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.45	1.1	No
1607-D4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	20,000	No
1607-D4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	41,900	132,000	No
1607-D4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	900	1,510	No
1607-D4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	100	--	--
1607-D4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,100	3,890	No
1607-D4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	350	563	No
1607-D4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	3,500	18,500	No
1607-D4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,400	15,700	No
1607-D4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,700	22,000	No
1607-D4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	60	--	--
1607-D4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,600	10,200	No
1607-D4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	269,000	512,000	No
1607-D4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	280	470	No
1607-D4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,100	19,100	No
1607-D4_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	2,460	52,000	No
1607-D4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	715	--	--
1607-D4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	1.6	3,210	No
1607-D4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	54,500	85,100	No
1607-D4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	38,100	67,800	No
1607-D5_Shallow	non-Rad	2,4-Dinitrophenol	51-28-5	ug/kg	370	--	--
1607-D5_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	34	--	--
1607-D5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--	--
1607-D5_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	4.0	--	--
1607-D5_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.80	--	--
1607-D5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.20E+07	1.18E+07	Yes
1607-D5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	163	--	--
1607-D5_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	12	--	--
1607-D5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,558	20,000	No
1607-D5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	775,391	132,000	Yes
1607-D5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,962	--	--
1607-D5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	405	--	--
1607-D5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	449	--	--
1607-D5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	253	--	--
1607-D5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	493	1,510	No
1607-D5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	69,503	3,890	Yes
1607-D5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	97	563	No
1607-D5_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	48	--	--
1607-D5_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.2	--	--
1607-D5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	9,673	18,500	No
1607-D5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	779	--	--
1607-D5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	10,198	15,700	No
1607-D5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	31,565	22,000	Yes
1607-D5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	99	--	--
1607-D5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,925	--	--
1607-D5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	125	--	--
1607-D5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	160	--	--
1607-D5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.40E+07	3.26E+07	No
1607-D5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	106,537	10,200	Yes
1607-D5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	330,505	512,000	No
1607-D5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	25	13	Yes
1607-D5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,201	470	Yes
1607-D5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	14,373	19,100	No
1607-D5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,855	--	--
1607-D5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,528	--	--
1607-D5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2,647	--	--
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	21,904	--	--
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	37,994	--	--
1607-D5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	71,779	85,100	No
1607-D5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,033	67,800	No
600-30_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.55E+06	1.18E+07	No
600-30_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,263	20,000	No
600-30_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	89,130	132,000	No
600-30_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	292	1,510	No
600-30_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	408	--	--
600-30_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,431	3,890	No
600-30_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	109	563	No
600-30_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	11,154	18,500	No
600-30_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,887	15,700	No
600-30_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	15,226	22,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
600-30_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	230	--	--
600-30_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.07E+07	3.26E+07	No
600-30_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	4,711	10,200	No
600-30_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	360,369	512,000	No
600-30_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	386	470	No
600-30_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	11,429	19,100	No
600-30_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	6,410	--	--
600-30_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	49,219	85,100	No
600-30_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	43,816	67,800	No
600-30_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.79E+06	1.18E+07	No
600-30_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,242	20,000	No
600-30_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	85,373	132,000	No
600-30_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	105	1,510	No
600-30_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	101	--	--
600-30_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,525	3,890	No
600-30_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	103	563	No
600-30_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,014	18,500	No
600-30_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	9,145	15,700	No
600-30_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	17,330	22,000	No
600-30_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	294	--	--
600-30_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	2.24E+07	3.26E+07	No
600-30_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,021	10,200	No
600-30_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	351,748	512,000	No
600-30_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	6.5	13	No
600-30_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	390	470	No
600-30_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	12,530	19,100	No
600-30_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	170	167	Yes
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	820	--	--
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,275	--	--
600-30_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	57,064	85,100	No
600-30_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	43,114	67,800	No
600-30_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	6.93E+06	1.18E+07	No
600-30_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	430	130	Yes
600-30_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,866	20,000	No
600-30_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	64,907	132,000	No
600-30_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	66	1,510	No
600-30_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--	--
600-30_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,700	3,890	No
600-30_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	67	563	No
600-30_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	7,708	18,500	No
600-30_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	10,660	15,700	No
600-30_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	18,099	22,000	No
600-30_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	210	--	--
600-30_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.44E+07	3.26E+07	No
600-30_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	7,862	10,200	No
600-30_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	346,688	512,000	No
600-30_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	6.4	13	No
600-30_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	243	470	No
600-30_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,270	19,100	No
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,643	--	--
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,600	--	--
600-30_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	67,222	85,100	No
600-30_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,856	67,800	No
600-30_Shallow_Focused	non-Rad	Aldrin	309-00-2	ug/kg	1.7	--	--
600-30_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.39E+06	1.18E+07	No
600-30_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	349	130	Yes
600-30_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,590	20,000	No
600-30_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	99,100	132,000	No
600-30_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	319	1,510	No
600-30_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,460	3,890	No
600-30_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	134	563	No
600-30_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,800	18,500	No
600-30_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,300	15,700	No
600-30_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,300	22,000	No
600-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	270	--	--
600-30_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.34E+07	3.26E+07	No
600-30_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,800	10,200	Yes
600-30_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	382,000	512,000	No
600-30_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	396	470	No
600-30_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,700	19,100	No
600-30_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	52,500	--	--
600-30_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	62,200	85,100	No
600-30_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,600	67,800	No
628-3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--	--
628-3_Shallow	non-Rad	Aldrin	309-00-2	ug/kg	1.5	--	--
628-3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.13E+06	1.18E+07	No
628-3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3,150	130	Yes
628-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,521	20,000	No
628-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	57,199	132,000	No
628-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--	--
628-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.7	--	--
628-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.3	--	--
628-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.1	--	--
628-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	193	1,510	No
628-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,771	3,890	No
628-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	136	563	No
628-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,406	18,500	No
628-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.5	--	--
628-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,637	15,700	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
628-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,747	22,000	No
628-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--	--
628-3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.6	--	--
628-3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.26E+07	No
628-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,972	10,200	Yes
628-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	284,235	512,000	No
628-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	165	13	Yes
628-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	372	470	No
628-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,674	19,100	No
628-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	3.6	--	--
628-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,961	--	--
628-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	53,113	85,100	No
628-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,721	67,800	No
628-3_Staging Pile Area_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.4	--	--
628-3_Staging Pile Area_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.4	--	--
628-3_Staging Pile Area_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	1.18E+07	No
628-3_Staging Pile Area_2	non-Rad	Anthracene	120-12-7	ug/kg	8.6	--	--
628-3_Staging Pile Area_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	13	--	--
628-3_Staging Pile Area_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.1	--	--
628-3_Staging Pile Area_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,870	20,000	No
628-3_Staging Pile Area_2	non-Rad	Barium	7440-39-3	ug/kg	78,503	132,000	No
628-3_Staging Pile Area_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.9	--	--
628-3_Staging Pile Area_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--	--
628-3_Staging Pile Area_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.3	--	--
628-3_Staging Pile Area_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--	--
628-3_Staging Pile Area_2	non-Rad	Beryllium	7440-41-7	ug/kg	255	1,510	No
628-3_Staging Pile Area_2	non-Rad	Boron	7440-42-8	ug/kg	2,112	3,890	No
628-3_Staging Pile Area_2	non-Rad	Cadmium	7440-43-9	ug/kg	163	563	No
628-3_Staging Pile Area_2	non-Rad	Chromium	7440-47-3	ug/kg	12,445	18,500	No
628-3_Staging Pile Area_2	non-Rad	Chrysene	218-01-9	ug/kg	6.7	--	--
628-3_Staging Pile Area_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,062	15,700	No
628-3_Staging Pile Area_2	non-Rad	Copper	7440-50-8	ug/kg	15,226	22,000	No
628-3_Staging Pile Area_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.0	--	--
628-3_Staging Pile Area_2	non-Rad	Fluoranthene	206-44-0	ug/kg	35	--	--
628-3_Staging Pile Area_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--	--
628-3_Staging Pile Area_2	non-Rad	Iron	7439-89-6	ug/kg	2.17E+07	3.26E+07	No
628-3_Staging Pile Area_2	non-Rad	Lead	7439-92-1	ug/kg	7,650	10,200	No
628-3_Staging Pile Area_2	non-Rad	Manganese	7439-96-5	ug/kg	323,863	512,000	No
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	ug/kg	113	13	Yes
628-3_Staging Pile Area_2	non-Rad	Molybdenum	7439-98-7	ug/kg	421	470	No
628-3_Staging Pile Area_2	non-Rad	Nickel	7440-02-0	ug/kg	10,261	19,100	No
628-3_Staging Pile Area_2	non-Rad	Pyrene	129-00-0	ug/kg	11	--	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,200	--	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,900	--	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,486	--	--
628-3_Staging Pile Area_2	non-Rad	Vanadium	7440-62-2	ug/kg	55,454	85,100	No
628-3_Staging Pile Area_2	non-Rad	Zinc	7440-66-6	ug/kg	48,319	67,800	No
628-3_Staging Pile Area_3	non-Rad	Aluminum	7429-90-5	ug/kg	6.90E+06	1.18E+07	No
628-3_Staging Pile Area_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--	--
628-3_Staging Pile Area_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--	--
628-3_Staging Pile Area_3	non-Rad	Arsenic	7440-38-2	ug/kg	2,494	20,000	No
628-3_Staging Pile Area_3	non-Rad	Barium	7440-39-3	ug/kg	74,014	132,000	No
628-3_Staging Pile Area_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.8	--	--
628-3_Staging Pile Area_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.6	--	--
628-3_Staging Pile Area_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--	--
628-3_Staging Pile Area_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--	--
628-3_Staging Pile Area_3	non-Rad	Beryllium	7440-41-7	ug/kg	234	1,510	No
628-3_Staging Pile Area_3	non-Rad	Boron	7440-42-8	ug/kg	2,241	3,890	No
628-3_Staging Pile Area_3	non-Rad	Cadmium	7440-43-9	ug/kg	166	563	No
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	ug/kg	41,154	18,500	Yes
628-3_Staging Pile Area_3	non-Rad	Chrysene	218-01-9	ug/kg	1.9	--	--
628-3_Staging Pile Area_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,463	15,700	No
628-3_Staging Pile Area_3	non-Rad	Copper	7440-50-8	ug/kg	18,417	22,000	No
628-3_Staging Pile Area_3	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--	--
628-3_Staging Pile Area_3	non-Rad	Iron	7439-89-6	ug/kg	2.21E+07	3.26E+07	No
628-3_Staging Pile Area_3	non-Rad	Lead	7439-92-1	ug/kg	13,526	10,200	Yes
628-3_Staging Pile Area_3	non-Rad	Manganese	7439-96-5	ug/kg	328,755	512,000	No
628-3_Staging Pile Area_3	non-Rad	Mercury	7439-97-6	ug/kg	30	13	Yes
628-3_Staging Pile Area_3	non-Rad	Molybdenum	7439-98-7	ug/kg	474	470	Yes
628-3_Staging Pile Area_3	non-Rad	Nickel	7440-02-0	ug/kg	9,872	19,100	No
628-3_Staging Pile Area_3	non-Rad	Pyrene	129-00-0	ug/kg	3.0	--	--
628-3_Staging Pile Area_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,203	--	--
628-3_Staging Pile Area_3	non-Rad	Vanadium	7440-62-2	ug/kg	58,456	85,100	No
628-3_Staging Pile Area_3	non-Rad	Zinc	7440-66-6	ug/kg	54,972	67,800	No
628-3_Staging Pile Area_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.5	--	--
628-3_Staging Pile Area_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.93E+06	1.18E+07	No
628-3_Staging Pile Area_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,800	20,000	No
628-3_Staging Pile Area_Focused	non-Rad	Barium	7440-39-3	ug/kg	109,000	132,000	No
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.4	--	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.8	--	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.3	--	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--	--
628-3_Staging Pile Area_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	298	1,510	No
628-3_Staging Pile Area_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,500	3,890	No
628-3_Staging Pile Area_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	189	563	No
628-3_Staging Pile Area_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,000	18,500	No
628-3_Staging Pile Area_Focused	non-Rad	Chrysene	218-01-9	ug/kg	3.4	--	--
628-3_Staging Pile Area_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,420	15,700	No
628-3_Staging Pile Area_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,700	22,000	No

Table 7-3. Comparison of EPCs for Waste Site Decision Units in 100-D Source Operable Unit to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
628-3_Staging Pile Area_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	26	--	--
628-3_Staging Pile Area_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.9	--	--
628-3_Staging Pile Area_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.16E+07	3.26E+07	No
628-3_Staging Pile Area_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,500	10,200	No
628-3_Staging Pile Area_Focused	non-Rad	Manganese	7439-96-5	ug/kg	363,000	512,000	No
628-3_Staging Pile Area_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	353	470	No
628-3_Staging Pile Area_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	19,100	No
628-3_Staging Pile Area_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.5	--	--
628-3_Staging Pile Area_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	20,300	--	--
628-3_Staging Pile Area_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,400	85,100	No
628-3_Staging Pile Area_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,400	67,800	No
UPR-100-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	485	130	Yes
UPR-100-D-5_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	4.3	--	--
UPR-100-D-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	2,640	20,000	No
UPR-100-D-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	78,785	132,000	No
UPR-100-D-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	178	1,510	No
UPR-100-D-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,085	3,890	No
UPR-100-D-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	6,103	18,500	No
UPR-100-D-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	8,238	15,700	No
UPR-100-D-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,771	22,000	No
UPR-100-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	--	--
UPR-100-D-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	2,643	10,200	No
UPR-100-D-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	397,997	512,000	No
UPR-100-D-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	389	470	No
UPR-100-D-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	8,772	19,100	No
UPR-100-D-5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	236	780	No
UPR-100-D-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	190	167	Yes
UPR-100-D-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,866	3,210	No
UPR-100-D-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	66,616	85,100	No
UPR-100-D-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,265	67,800	No
UPR-100-D-5_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.066	1.1	No
UPR-100-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	0.18	Yes
UPR-100-D-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.1	No
UPR-100-D-5_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.039	0.11	No
UPR-100-D-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.54	1.1	No
UPR-100-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	370	130	Yes
UPR-100-D-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	2,612	20,000	No
UPR-100-D-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	64,474	132,000	No
UPR-100-D-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	194	1,510	No
UPR-100-D-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,067	3,890	No
UPR-100-D-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	8,861	18,500	No
UPR-100-D-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,229	15,700	No
UPR-100-D-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,439	22,000	No
UPR-100-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	--	--
UPR-100-D-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	2,748	10,200	No
UPR-100-D-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,220	512,000	No
UPR-100-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	332	470	No
UPR-100-D-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,158	19,100	No
UPR-100-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	170	167	Yes
UPR-100-D-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,579	3,210	No
UPR-100-D-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	65,393	85,100	No
UPR-100-D-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	44,676	67,800	No
UPR-100-D-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.074	1.1	No
UPR-100-D-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.49	1.1	No
UPR-100-D-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	1.1	No
UPR-100-D-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,110	20,000	No
UPR-100-D-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	50,200	132,000	No
UPR-100-D-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	146	1,510	No
UPR-100-D-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	744	3,890	No
UPR-100-D-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	5,560	18,500	No
UPR-100-D-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,240	15,700	No
UPR-100-D-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,800	22,000	No
UPR-100-D-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,200	10,200	No
UPR-100-D-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	254,000	512,000	No
UPR-100-D-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	330	470	No
UPR-100-D-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	19,100	No
UPR-100-D-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,151	3,210	No
UPR-100-D-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	60,100	85,100	No
UPR-100-D-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,600	67,800	No
UPR-100-D-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.41	1.1	No
UPR-100-D-5_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.030	0.11	No
UPR-100-D-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.38	1.1	No

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	417	6,000[a]	No
100-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.4	290	No
100-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	17	--[b]	--
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,187	1.61E+06	No
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	43,478	2.00E+06[c]	No
100-D-13_Shallow_Focused	non-Rad	2-(2-methyl-4-chlorophenoxy) propionic acid	93-65-2	ug/kg	2,000	48	Yes
100-D-13_Shallow_Focused	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	ug/kg	11	285	No
100-D-13_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.66	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,900	138,879	No
100-D-13_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	64	36,777	No
100-D-13_Shallow_Focused	non-Rad	Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	ug/kg	3.0	432	No
100-D-13_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	14	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	324,724	No
100-D-13_Shallow_Focused	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	1,800	9,002	No
100-D-13_Shallow_Focused	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,700	9,002	No
100-D-13_Shallow_Focused	non-Rad	Phenol	108-95-2	ug/kg	22	3,098	No
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	3,586	No
100-D-13_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,600	2.00E+06[c]	No
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	122,000	--[b]	--
100-D-15_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.4	--[b]	--
100-D-15_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--[b]	--
100-D-15_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	130	6,000[a]	No
100-D-15_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	29	--[b]	--
100-D-15_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,272	1.61E+06	No
100-D-15_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	3.6	--[b]	--
100-D-15_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.7	--[b]	--
100-D-15_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	427	--[b]	--
100-D-15_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	965	463	Yes
100-D-15_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	173	6,000[a]	No
100-D-15_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	25	--[b]	--
100-D-15_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	553	313,527	No
100-D-15_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	32,560	1.61E+06	No
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	92,810	--[b]	--
100-D-18_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2,600	6,000[a]	No
100-D-18_Deep	Rad	Cesium-137	10045-97-3	pCi/g	18	--[b]	--
100-D-18_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	--[b]	--
100-D-18_Deep	Rad	Europium-152	14683-23-9	pCi/g	9.8	--[b]	--
100-D-18_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	--[b]	--
100-D-18_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	--[b]	--
100-D-18_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	1,957	No
100-D-19_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1,580	--[b]	--
100-D-19_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.37	--[b]	--
100-D-19_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	817	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	410	6,000[a]	No
100-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	920	1.82E+07	No
100-D-2_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	24,600	3.89E+08	No
100-D-2_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2,400	--[b]	--
100-D-20_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.21	--[b]	--
100-D-20_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.5	--[b]	--
100-D-20_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.072	--[b]	--
100-D-20_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.55	--[b]	--
100-D-20_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.041	--[b]	--
100-D-22_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.059	--[b]	--
100-D-22_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.033	--[b]	--
100-D-22_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--[b]	--
100-D-22_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	930	No
100-D-24_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	58	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	22	2.06E+06	No
100-D-24_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	243	6,000[a]	No
100-D-24_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	7.1	290	No
100-D-28:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	32	3.89E+08	No
100-D-28:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	616	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	879	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	127	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	165	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	80	--[b]	--
100-D-28:1_Overburden	non-Rad	Carbazole	86-74-8	ug/kg	76	11,983	No
100-D-28:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	559	--[b]	--
100-D-28:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	48	--[b]	--
100-D-28:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	374	--[b]	--
100-D-28:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	284	6,000[a]	No
100-D-28:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	96	--[b]	--
100-D-28:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	13,258	--[b]	--
100-D-28:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	79	--[b]	--
100-D-28:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	827	--[b]	--
100-D-28:1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	45	1.89E+06	No
100-D-28:1_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	110	3.89E+08	No
100-D-28:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	380	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	32	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	47	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	20	--[b]	--
100-D-28:1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	--[b]	--
100-D-28:1_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	11,983	No
100-D-28:1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	47	--[b]	--
100-D-28:1_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	43	65,587	No
100-D-28:1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	30	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-28:1_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	50	2.02E+06	No
100-D-28:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	203	6,000[a]	No
100-D-28:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--[b]	--
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	572	--[b]	--
100-D-28:1_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	46	158,410	No
100-D-28:1_Shallow	non-Rad	Phenol	108-95-2	ug/kg	28	173,512	No
100-D-28:1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	91	--[b]	--
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	200,792	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.97	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.49	20	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	3.3	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	21	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	20	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	48	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	28	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	237	6,000[a]	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
100-D-29_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	686	--[b]	--
100-D-29_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.014	72	No
100-D-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	618	--[b]	--
100-D-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,333	273,461	No
100-D-29_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.014	72	No
100-D-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	400	--[b]	--
100-D-29_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.034	72	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Acetone	67-64-1	ug/kg	6.7	366,090	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.8	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.5	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.2	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.2	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	1.7	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	4.6	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.8	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	290	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	710	504,120	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,120	1.61E+06	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	1.89E+06	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	4.3	366,090	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.0	3.89E+08	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	659	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	16	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	11	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.0	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.9	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.3	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.9	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.4	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.3	2.02E+06	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	205	6,000[a]	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	17	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	3.9	290	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	1,800	166,360	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	8,617	504,120	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	10	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	174	557,308	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	22,432	1.61E+06	No
100-D-31:10_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.48	--[b]	--
100-D-31:10_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--[b]	--
100-D-31:10_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	412	6,000[a]	No
100-D-31:10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	--[b]	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,040	504,120	No
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	400	50,412	No
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	880	504,120	No
100-D-31:10_Overburden	non-Rad	Phenol	108-95-2	ug/kg	29	173,512	No
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,978	1.61E+06	No
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,361	2.00E+06[c]	No
100-D-31:10_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	20	--[b]	--
100-D-31:10_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	29,357	No
100-D-31:10_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.2	--[b]	--
100-D-31:10_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.4	--[b]	--
100-D-31:10_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--[b]	--
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	7,582	504,120	No
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,545	504,120	No
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,000	1.61E+06	No
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,700	2.00E+06[c]	No

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:10_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.71	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	91	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,200	504,120	No
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,500	504,120	No
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	1.61E+06	No
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,600	2.00E+06[c]	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.6	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	100	1.89E+06	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	200	3.89E+08	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	159	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	114	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	79	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	48	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	94	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	83	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	182	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	59	2.02E+06	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	177	6,000[a]	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	201	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	290	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	1.82E+07	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	47	158,410	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	618	504,120	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	410	50,412	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	590	504,120	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	630	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,200	200,792	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	1.61E+06	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,558	2.00E+06[c]	No
100-D-31:3, 100-D-31:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	29,357	No
100-D-31:3_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.26	--[b]	--
100-D-31:3_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--[b]	--
100-D-31:3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	1.89E+06	No
100-D-31:3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	20	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	10	--[b]	--
100-D-31:3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	4,300	--[b]	--
100-D-31:3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	45	--[b]	--
100-D-31:3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	97	--[b]	--
100-D-31:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	181	6,000[a]	No
100-D-31:3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	54	--[b]	--
100-D-31:3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	19	--[b]	--
100-D-31:3_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	290	No
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,219	504,120	No
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,248	504,120	No
100-D-31:3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	97	--[b]	--
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,767	1.61E+06	No
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,440	2.00E+06[c]	No
100-D-31:4_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	23	64,553	No
100-D-31:4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.61	--[b]	--
100-D-31:4_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.4	366,090	No
100-D-31:4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	562	3.89E+08	No
100-D-31:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	19	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	649	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1,900	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,600	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	920	--[b]	--
100-D-31:4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	138	--[b]	--
100-D-31:4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	230	11,983	No
100-D-31:4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.37	--[b]	--
100-D-31:4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1,900	--[b]	--
100-D-31:4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	176	--[b]	--
100-D-31:4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	92	65,587	No
100-D-31:4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4,200	--[b]	--
100-D-31:4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	243	2.02E+06	No
100-D-31:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	437	6,000[a]	No
100-D-31:4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	975	--[b]	--
100-D-31:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	42	--[b]	--
100-D-31:4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	290	No
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	566	504,120	No
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	436	504,120	No
100-D-31:4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,276	--[b]	--
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	9,750	1.61E+06	No
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	36,219	2.00E+06[c]	No
100-D-31:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	473	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.7	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	6,000[a]	No
100-D-31:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	472	1.82E+07	No
100-D-31:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,480	504,120	No
100-D-31:5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	259,914	3.89E+08	No
100-D-31:5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	20,105	7.78E+06	No
100-D-31:5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	142	--[b]	--
100-D-31:5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	1,146	1.82E+07	No
100-D-31:5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,728	200,792	No
100-D-31:5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	144,277	3.89E+08	No
100-D-31:5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10,484	7.78E+06	No
100-D-31:5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240	--[b]	--
100-D-31:5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	700	1.82E+07	No

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,500	200,792	No
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	89,617	--[b]	--
100-D-31:6_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.30	--[b]	--
100-D-31:6_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	556	--[b]	--
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,998	7.78E+06	No
100-D-31:6_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	14	--[b]	--
100-D-31:6_Overburden	non-Rad	Copper	7440-50-8	ug/kg	24,687	2.86E+08	No
100-D-31:6_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	3.0	7,985	No
100-D-31:6_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.0	--[b]	--
100-D-31:6_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	607	6,000[a]	No
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	870	--[b]	--
100-D-31:6_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,654	504,120	No
100-D-31:6_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	800	--[b]	--
100-D-31:6_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.0	--[b]	--
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,860	7.78E+06	No
100-D-31:6_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.3	--[b]	--
100-D-31:6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	26,377	2.86E+08	No
100-D-31:6_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	363	6,000[a]	No
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	577	--[b]	--
100-D-31:6_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	6,985	504,120	No
100-D-31:7_Overburden	non-Rad	2-Butanone	78-93-3	ug/kg	2.0	258,275	No
100-D-31:7_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.67	--[b]	--
100-D-31:7_Overburden	non-Rad	Acetone	67-64-1	ug/kg	13	366,090	No
100-D-31:7_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	404	--[b]	--
100-D-31:7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.2	--[b]	--
100-D-31:7_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
100-D-31:7_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1,700	--[b]	--
100-D-31:7_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	73	--[b]	--
100-D-31:7_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	290	No
100-D-31:7_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	514	1.82E+07	No
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	939	504,120	No
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	687	504,120	No
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,767	1.61E+06	No
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,876	2.00E+06[c]	No
100-D-31:7_Shallow	non-Rad	2-Butanone	78-93-3	ug/kg	1.8	258,275	No
100-D-31:7_Shallow	non-Rad	Acetone	67-64-1	ug/kg	8.0	366,090	No
100-D-31:7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--[b]	--
100-D-31:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	92	--[b]	--
100-D-31:7_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	290	No
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	696	504,120	No
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,459	504,120	No
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	900	1.61E+06	No
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,100	2.00E+06[c]	No
100-D-31:7_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	63	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	700	504,120	No
100-D-31:8_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.0	--[b]	--
100-D-31:8_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.0	--[b]	--
100-D-31:8_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	13	--[b]	--
100-D-31:8_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	332	6,000[a]	No
100-D-31:8_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	1.82E+07	No
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,023	504,120	No
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	783	504,120	No
100-D-31:8_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,917	2.00E+06[c]	No
100-D-31:8_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.92	29,357	No
100-D-31:8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.63	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.9	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	12	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.9	--[b]	--
100-D-31:8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--[b]	--
100-D-31:8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.2	--[b]	--
100-D-31:8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--[b]	--
100-D-31:8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	630	1.82E+07	No
100-D-31:8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	563	504,120	No
100-D-31:8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	27	--[b]	--
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	1.61E+06	No
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,100	2.00E+06[c]	No
100-D-31:8_Shallow_Focused_1	non-Rad	Antimony	7440-36-0	ug/kg	446	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	6,000[a]	No
100-D-31:8_Shallow_Focused_1	non-Rad	Isophorone	78-59-1	ug/kg	77	3,949	No
100-D-31:8_Shallow_Focused_1	non-Rad	Mercury	7439-97-6	ug/kg	26	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	502	1.82E+07	No
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	94,900	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	2.06E+07	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	1.57E+06	3.89E+08	No
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	169,000	7.78E+06	No
100-D-31:8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	42,400	2.86E+08	No
100-D-31:8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	24,200	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	120	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2,300	1.82E+07	No
100-D-31:8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	19,700	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	83,000	--[b]	--
100-D-31:9_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	31	--[b]	--
100-D-31:9_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	12	--[b]	--
100-D-31:9_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--[b]	--
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	652	504,120	No
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,300	504,120	No
100-D-31:9_Overburden	non-Rad	Phenol	108-95-2	ug/kg	24	173,512	No
100-D-31:9_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,800	2.00E+06[c]	No
100-D-31:9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	14	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-31:9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	11	--[b]	--
100-D-31:9_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	114	--[b]	--
100-D-31:9_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	19	--[b]	--
100-D-31:9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	222	6,000[a]	No
100-D-31:9_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	12	--[b]	--
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	607	504,120	No
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	690	504,120	No
100-D-31:9_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	70	--[b]	--
100-D-32_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	--[b]	--
100-D-32_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	549	607,366	No
100-D-32_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	826	--[b]	--
100-D-32_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	568	607,366	No
100-D-32_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--[b]	--
100-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,274	--[d]	--
100-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	1.1	--[d]	--
100-D-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	71	--[b]	--
100-D-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	120	--[b]	--
100-D-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	199	6,000[a]	No
100-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	393	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Copper	7440-50-8	ug/kg	26,641	2.78E+07	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	513	1.76E+06	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	456	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	ug/kg	90,384	2.78E+07	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	520	1.76E+06	No
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.9	195,564	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	28	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	530	1.76E+06	No
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	464	--[b]	--
100-D-47_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	789	--[b]	--
100-D-47_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	492	556,102	No
100-D-47_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.0	898	No
100-D-47_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	501	556,102	No
100-D-47_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.60	--[b]	--
100-D-47_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--[b]	--
100-D-47_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.2	--[b]	--
100-D-47_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.93	898	No
100-D-47_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	700	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	320	6,000[a]	No
100-D-47_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	1.70E+06	No
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	85,700	--[b]	--
100-D-47_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	--[b]	--
100-D-47_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.5	--[b]	--
100-D-47_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	36	--[b]	--
100-D-47_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.2	2,744	No
100-D-48:1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5,010	6,000[a]	No
100-D-48:1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.26	--[b]	--
100-D-48:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	30	--[b]	--
100-D-48:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	8.1	--[b]	--
100-D-48:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	64	--[b]	--
100-D-48:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	4.8	--[b]	--
100-D-48:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.51	--[b]	--
100-D-48:1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.68	29,357	No
100-D-48:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	643	6,000[a]	No
100-D-48:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.31	--[b]	--
100-D-48:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	29,357	No
100-D-48:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.8	--[b]	--
100-D-48:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.39	--[b]	--
100-D-48:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	3.2	--[b]	--
100-D-48:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.53	--[b]	--
100-D-48:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.077	--[b]	--
100-D-48:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	29,357	No
100-D-48:2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	608	6,000[a]	No
100-D-48:2_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	--[b]	--
100-D-48:2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.11	--[b]	--
100-D-48:2_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.025	--[b]	--
100-D-48:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.096	--[b]	--
100-D-48:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.56	--[b]	--
100-D-48:2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	--[b]	--
100-D-48:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.046	--[b]	--
100-D-48:3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	587	6,000[a]	No
100-D-48:3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.7	--[b]	--
100-D-48:3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	--[b]	--
100-D-48:3_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.67	--[b]	--
100-D-48:3_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.071	--[b]	--
100-D-48:3_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.19	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-48:3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	29,357	No
100-D-48:3_Overburden	Rad	Americium-241	14596-10-2	pCi/g	0.052	--[b]	--
100-D-48:3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.040	--[b]	--
100-D-48:3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.25	--[b]	--
100-D-48:3_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	0.37	--[b]	--
100-D-48:3_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.4	--[b]	--
100-D-48:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	802	6,000[a]	No
100-D-48:3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.053	--[b]	--
100-D-48:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.13	--[b]	--
100-D-48:3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.061	--[b]	--
100-D-48:3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	29,357	No
100-D-48:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	6,000[a]	No
100-D-48:4_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.029	--[b]	--
100-D-48:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.043	--[b]	--
100-D-48:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[b]	--
100-D-48:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.028	--[b]	--
100-D-48:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.44	29,357	No
100-D-49:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,300	6,000[a]	No
100-D-49:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	62	--[b]	--
100-D-49:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.6	--[b]	--
100-D-49:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	24	--[b]	--
100-D-49:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.9	--[b]	--
100-D-49:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.26	--[b]	--
100-D-49:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	29,357	No
100-D-49:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.24	--[b]	--
100-D-49:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	42	--[b]	--
100-D-49:4_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.040	--[b]	--
100-D-49:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.1	--[b]	--
100-D-49:4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	--[b]	--
100-D-49:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	8.3	--[b]	--
100-D-49:4_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	--[b]	--
100-D-49:4_Deep	Rad	Nickel-63	13981-37-8	pCi/g	3.0	--[b]	--
100-D-49:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	--[b]	--
100-D-49:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	29,357	No
100-D-49:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	170	--[b]	--
100-D-49:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	21,359	--[b]	--
100-D-49:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	33	--[b]	--
100-D-49:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.058	--[b]	--
100-D-49:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5	--[b]	--
100-D-49:4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	--[b]	--
100-D-49:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	--[b]	--
100-D-52_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.36	--[b]	--
100-D-56:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	1,200	--[b]	--
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,633	7.78E+06	No
100-D-56:1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	3,300	--[b]	--
100-D-56:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	271	6,000[a]	No
100-D-56:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	75	--[b]	--
100-D-56:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	950	1.82E+07	No
100-D-56:1_Overburden	non-Rad	Nitrite	14797-65-0	ug/kg	4,080	166,360	No
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2,100	200,792	No
100-D-56:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,100	--[b]	--
100-D-56:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[a]	No
100-D-56:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20	--[b]	--
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	200,792	No
100-D-56:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,000	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[a]	No
100-D-56:1_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	240	557,308	No
100-D-56:2_Overburden_4	non-Rad	Antimony	7440-36-0	ug/kg	500	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	371	6,000[a]	No
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,188	504,120	No
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	638	50,412	No
100-D-56:2_Overburden_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	223	6,000[a]	No
100-D-56:2_Overburden_5	non-Rad	Mercury	7439-97-6	ug/kg	21	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,535	504,120	No
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	492	50,412	No
100-D-56:2_Overburden_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	493	6,000[a]	No
100-D-56:2_Overburden_Focused_2	non-Rad	Fluoride	16984-48-8	ug/kg	3,400	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,300	504,120	No
100-D-56:2_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	420	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	244	6,000[a]	No
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	903	504,120	No
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	513	50,412	No
100-D-56:2_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,478	504,120	No
100-D-56:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	659	6,000[a]	No
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,431	504,120	No
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	675	50,412	No
100-D-56:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	390	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	29,300	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	662	6,000[a]	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	84	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chrysene	218-01-9	ug/kg	29	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	590	504,120	No

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-56:2_Staging pile area footprint_focused	non-Rad	Pyrene	129-00-0	ug/kg	15	--[b]	--
100-D-61_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.3	--[b]	--
100-D-61_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	5.2	1.38E+07	No
100-D-61_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	491	--[b]	--
100-D-61_Shallow	non-Rad	Barium	7440-39-3	ug/kg	158,794	1.38E+07	No
100-D-61_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	16	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.5	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.5	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.6	--[b]	--
100-D-61_Shallow	non-Rad	Boron	7440-42-8	ug/kg	11,172	275,008	No
100-D-61_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	15	--[b]	--
100-D-61_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--[b]	--
100-D-61_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--[b]	--
100-D-61_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	2.6	71,296	No
100-D-61_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	6,000[a]	No
100-D-61_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	516	643,018	No
100-D-61_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	43	--[b]	--
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,040	7,100	No
100-D-61_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	11,436	1.61E+06	No
100-D-7_Shallow_1	non-Rad	2-Butanone	78-93-3	ug/kg	1.7	2,663	No
100-D-7_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--[b]	--
100-D-7_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	15	3,774	No
100-D-7_Shallow_1	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	0.21	Yes
100-D-7_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	30	--[b]	--
100-D-7_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	130	--[b]	--
100-D-7_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	68	14,821	No
100-D-7_Shallow_1	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.52	1,653	No
100-D-7_Shallow_1	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.75	0.91	No
100-D-7_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	184	6,000[a]	No
100-D-7_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	29	--[b]	--
100-D-7_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	10	3.0	Yes
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	834	2,070	No
100-D-7_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	0.91	1,032	No
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,386	1.61E+06	No
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,725	2.00E+06[c]	No
100-D-7_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.55	--[b]	--
100-D-7_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.88	--[b]	--
100-D-7_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	3,774	No
100-D-7_Shallow_2	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.22	0.21	Yes
100-D-7_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--[b]	--
100-D-7_Shallow_2	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.59	1,653	No
100-D-7_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.85	0.91	No
100-D-7_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	236	6,000[a]	No
100-D-7_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	3.0	No
100-D-7_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	410	5,745	No
100-D-7_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,700	2.00E+06[c]	No
100-D-7_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	6.3	3,774	No
100-D-7_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	0.21	Yes
100-D-7_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	3.0	Yes
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.82	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.6	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Acetone	67-64-1	ug/kg	6.2	3,774	No
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	100	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.9	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	49	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,100	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	452	14,821	No
100-D-7_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	285	6,000[a]	No
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	ug/kg	304	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.7	3.0	No
100-D-7_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	710	5,745	No
100-D-7_Staging pile area footprint	non-Rad	Toluene	108-88-3	ug/kg	0.72	1,032	No
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,152	1.61E+06	No
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,699	2.00E+06[c]	No
100-D-7_Staging pile area footprint	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.0	3,767	No
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,900	2.86E+08	No
100-D-70_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.7	290	No
100-D-70_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,200	504,120	No
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,000	1.61E+06	No
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,400	2.00E+06[c]	No
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,800	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	10	3.89E+08	No
100-D-74_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.9	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	40	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,400	2.00E+06[c]	No
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,300	1.61E+06	No
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,600	2.00E+06[c]	No
100-D-82_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.5	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	134,000	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	550	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	172	6,000[a]	No
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	950	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,600	504,120	No
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,500	504,120	No
100-D-84:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.4	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-D-84:1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	79	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Diethylphthalate	84-66-2	ug/kg	72	1.44E+06	No
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	120	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	9,400	504,120	No
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	10,200	504,120	No
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	480	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	45	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	55	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	64	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	41	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	19,300	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	55	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,600	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	510	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	29,200	2.86E+08	No
100-D-88_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	6,000[a]	No
100-D-88_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	290	No
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,900	504,120	No
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,800	504,120	No
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,300	1.61E+06	No
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	15,000	2.00E+06[c]	No
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	104,000	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	7.0	215,347	No
100-D-9_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	29	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	25	1.21E+06	No
100-D-9_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	8.0	170	No
100-D-94_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	450	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,700	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	580	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	504,120	No
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,700	504,120	No
116-D-10_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	463	--[b]	--
116-D-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	213	6,000[a]	No
116-D-10_Staging Pile Area	non-Rad	Antimony	7440-36-0	ug/kg	484	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	168	6,000[a]	No
116-D-10_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	15	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Silver	7440-22-4	ug/kg	180	36,665	No
116-D-10_Staging Pile Area	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.89	1,931	No
116-D-1A_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,740	6,000[a]	No
116-D-1A_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.7	--[b]	--
116-D-1A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	409	--[b]	--
116-D-1A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.8	--[b]	--
116-D-1A_Deep	Rad	Europium-152	14683-23-9	pCi/g	193	--[b]	--
116-D-1A_Deep	Rad	Europium-154	15585-10-1	pCi/g	16	--[b]	--
116-D-1A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.20	--[b]	--
116-D-1A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	11	--[b]	--
116-D-1A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21	29,357	No
116-D-1A_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	611	6,000[a]	No
116-D-1A_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.15	--[b]	--
116-D-1A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--[b]	--
116-D-1A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	9,786	No
116-D-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.96	--[b]	--
116-D-5_Deep	non-Rad	Antimony	7440-36-0	ug/kg	358	--[b]	--
116-D-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	95	--[b]	--
116-D-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	63	--[b]	--
116-D-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--[b]	--
116-D-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--[b]	--
116-D-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	--[b]	--
116-D-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	87	--[b]	--
116-D-5_Deep	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	36	--[b]	--
116-D-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	90	--[b]	--
116-D-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	353	6,000[a]	No
116-D-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	62	--[b]	--
116-D-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	318	--[b]	--
116-D-5_Deep	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	11,300	14,403	No
116-D-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	7,925	14,403	No
116-D-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	155	--[b]	--
116-D-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1.1	--[b]	--
116-D-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.52	--[b]	--
116-D-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	839	No
116-D-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	12	1.11E+07	No
116-D-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	55	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--[b]	--
116-D-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	854	--[b]	--
116-D-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	33	--[b]	--
116-D-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.5	--[b]	--
116-D-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	131	--[b]	--
116-D-5_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.5	--[b]	--
116-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	151	6,000[a]	No
116-D-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[b]	--
116-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	--[b]	--
116-D-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,757	14,403	No

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-D-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	79	--[b]	--
116-D-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.10	--[b]	--
116-D-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	2.8	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	10	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.0	--[b]	--
116-D-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	13	--[b]	--
116-D-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	13	--[b]	--
116-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	6,000[a]	No
116-D-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--[b]	--
116-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	65	--[b]	--
116-D-5_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	91,100	4,753	Yes
116-D-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,479	14,403	No
116-D-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	14	--[b]	--
116-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	1,300	15,923	No
116-D-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	--[b]	--
116-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.5	--[b]	--
116-D-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	6.6	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Antimony	7440-36-0	ug/kg	239	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.2	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.0	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.5	2.4	No
116-D-5_Staging pile area footprint	non-Rad	Chrysene	218-01-9	ug/kg	12	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.4	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	8.8	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	149	6,000[a]	No
116-D-5_Staging pile area footprint	non-Rad	Methoxychlor	72-43-5	ug/kg	20	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,627	14,403	No
116-D-5_Staging pile area footprint	non-Rad	Pyrene	129-00-0	ug/kg	6.2	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	228	15,923	No
116-D-6_Deep	non-Rad	Acetone	67-64-1	ug/kg	10	366,090	No
116-D-6_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	--[b]	--
116-D-6_Deep	non-Rad	Methylene chloride	75-09-2	ug/kg	10	290	No
116-D-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.9	--[b]	--
116-D-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.15	--[b]	--
116-D-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.038	--[b]	--
116-D-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	217,059	--[b]	--
116-D-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3,737	6,000[a]	No
116-D-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,873	--[b]	--
116-D-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	31	--[b]	--
116-D-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	23	--[b]	--
116-D-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	265	--[b]	--
116-D-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	37	--[b]	--
116-D-7_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.7	--[b]	--
116-D-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	725	--[b]	--
116-D-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.049	--[b]	--
116-D-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.96	--[b]	--
116-D-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	421	No
116-D-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,126	6,000[a]	No
116-D-7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.014	--[b]	--
116-D-7_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.050	--[b]	--
116-D-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--[b]	--
116-D-7_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.047	--[b]	--
116-D-7_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.8	--[b]	--
116-D-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.3	11,033	No
116-D-8_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	21	1.17E+07	No
116-D-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	385	--[b]	--
116-D-8_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	27	--[b]	--
116-D-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	31	--[b]	--
116-D-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--[b]	--
116-D-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	49	--[b]	--
116-D-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	200	--[b]	--
116-D-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	660	--[b]	--
116-D-8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	56	--[b]	--
116-D-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	41,188	--[b]	--
116-D-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	23	--[b]	--
116-D-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	10	8.7	Yes
116-D-8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,208	15,193	No
116-D-8_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,943	15,193	No
116-D-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	24	--[b]	--
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	11,473	1.61E+06	No
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,750	2.00E+06[c]	No
116-D-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.7	--[b]	--
116-D-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39	885	No
116-D-8_Shallow_Focused_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.6	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	35,000	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	490	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	96	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	180	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	29	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	27	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	53	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	45	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	52	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	6,000[a]	No
116-D-8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,800	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	29	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	8.7	No
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	5,000	15,193	No
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,300	15,193	No
116-D-8_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	53	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1,200	6,052	No
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,000	1.61E+06	No
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	46,000	2.00E+06[c]	No
116-D-8_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	7.6	--[b]	--
116-D-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.56	29,357	No
116-DR-1,2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	900	6,000[a]	No
116-DR-1,2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	75	--[b]	--
116-DR-1,2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	3.5	--[b]	--
116-DR-1,2_Deep	Rad	Europium-152	14683-23-9	pCi/g	126	--[b]	--
116-DR-1,2_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.1	--[b]	--
116-DR-1,2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	49	--[b]	--
116-DR-1,2_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.077	--[b]	--
116-DR-1,2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.3	--[b]	--
116-DR-1,2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	29	1,012	No
116-DR-1,2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	--[b]	--
116-DR-1,2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--[b]	--
116-DR-1,2_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.029	--[b]	--
116-DR-10_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.0	--[b]	--
116-DR-10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	35	--[b]	--
116-DR-10_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--[b]	--
116-DR-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	100	6,000[a]	No
116-DR-10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	--[b]	--
116-DR-10_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.16	--[b]	--
116-DR-10_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.043	--[b]	--
116-DR-10_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	240	6,000[a]	No
116-DR-10_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	497	1.82E+07	No
116-DR-10_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.58	--[b]	--
116-DR-10_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	--[b]	--
116-DR-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	74	--[b]	--
116-DR-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[b]	--
116-DR-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	102	--[b]	--
116-DR-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	92	--[b]	--
116-DR-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--[b]	--
116-DR-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	258	6,000[a]	No
116-DR-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--[b]	--
116-DR-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	51	--[b]	--
116-DR-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	87	--[b]	--
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	76,417	--[b]	--
116-DR-5_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.20	--[b]	--
116-DR-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.80	--[b]	--
116-DR-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	29	--[b]	--
116-DR-5_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.11	--[b]	--
116-DR-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	979	No
116-DR-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.20	69	No
116-DR-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	146	--[b]	--
116-DR-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[b]	--
116-DR-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	178	--[b]	--
116-DR-5_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	67	--[b]	--
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	25,436	--[b]	--
116-DR-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	169	--[b]	--
116-DR-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	250	--[b]	--
116-DR-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	554	6,000[a]	No
116-DR-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	38	--[b]	--
116-DR-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	48	--[b]	--
116-DR-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	540	606,152	No
116-DR-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	237	--[b]	--
116-DR-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	--[b]	--
116-DR-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.5	--[b]	--
116-DR-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	30	--[b]	--
116-DR-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.12	--[b]	--
116-DR-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	979	No
116-DR-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.20	69	No
116-DR-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.42	--[d]	--
116-DR-5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	56	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	70	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	71	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	62	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	26,100	9.54E+06	No
116-DR-5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	94	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-DR-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	361	6,000[a]	No
116-DR-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
116-DR-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.53	--[b]	--
116-DR-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.1	--[b]	--
116-DR-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.30	69	No
116-DR-5_Staging Pile Area	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	62	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	427	6,000[a]	No
116-DR-5_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	24	--[b]	--
116-DR-5_Staging Pile Area	Rad	Tritium	10028-17-8	pCi/g	0.20	79	No
116-DR-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.5	--[b]	--
116-DR-6_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.31	--[b]	--
116-DR-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	14	--[b]	--
116-DR-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4	--[b]	--
116-DR-6_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	--[b]	--
116-DR-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.77	--[b]	--
116-DR-6_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.1	9,786	No
116-DR-6_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.48	--[b]	--
116-DR-6_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.43	9,786	No
116-DR-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--[b]	--
116-DR-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.12	--[d]	--
116-DR-8_Overburden_2	non-Rad	Acetone	67-64-1	ug/kg	26	12,203	No
116-DR-8_Overburden_2	non-Rad	Antimony	7440-36-0	ug/kg	535	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	77	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	46	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	95	--[b]	--
116-DR-8_Overburden_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	347	--[b]	--
116-DR-8_Overburden_2	non-Rad	Chrysene	218-01-9	ug/kg	110	--[b]	--
116-DR-8_Overburden_2	non-Rad	Fluoranthene	206-44-0	ug/kg	180	--[b]	--
116-DR-8_Overburden_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	6,000[a]	No
116-DR-8_Overburden_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--[b]	--
116-DR-8_Overburden_2	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	9.7	No
116-DR-8_Overburden_2	non-Rad	Pyrene	129-00-0	ug/kg	120	--[b]	--
116-DR-8_Overburden_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.091	--[b]	--
116-DR-8_Overburden_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	979	No
116-DR-8_Overburden_3	non-Rad	Acetone	67-64-1	ug/kg	8.6	11,972	No
116-DR-8_Overburden_3	non-Rad	Antimony	7440-36-0	ug/kg	747	--[b]	--
116-DR-8_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	1,958	--[b]	--
116-DR-8_Overburden_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	133	--[b]	--
116-DR-8_Overburden_3	non-Rad	Chrysene	218-01-9	ug/kg	30	--[b]	--
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	ug/kg	27,770	--[b]	--
116-DR-8_Overburden_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	9.5	No
116-DR-8_Overburden_3	non-Rad	Pyrene	129-00-0	ug/kg	17	--[b]	--
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	2,200	18,225	No
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	72,846	--[b]	--
116-DR-8_Overburden_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	960	No
116-DR-8_Shallow	non-Rad	1,2-Dichlorobenzene	95-50-1	ug/kg	26	6,827	No
116-DR-8_Shallow	non-Rad	2,4,5-Trichlorophenol	95-95-4	ug/kg	10	34,950	No
116-DR-8_Shallow	non-Rad	2,4-Dichlorophenol	120-83-2	ug/kg	11	129	No
116-DR-8_Shallow	non-Rad	2-Chloronaphthalene	91-58-7	ug/kg	11	43,035	No
116-DR-8_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	62,987	No
116-DR-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	19	12,203	No
116-DR-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	531	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	28	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--[b]	--
116-DR-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	210	--[b]	--
116-DR-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--[b]	--
116-DR-8_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	25	--[b]	--
116-DR-8_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	192	6,000[a]	No
116-DR-8_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--[b]	--
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	70,444	--[b]	--
116-DR-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	9.7	No
116-DR-8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	640	606,152	No
116-DR-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	19	--[b]	--
116-DR-8_Shallow	non-Rad	Toluene	108-88-3	ug/kg	1.1	3,336	No
116-DR-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	979	No
116-DR-9_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	75	--[b]	--
116-DR-9_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	123	--[b]	--
116-DR-9_Deep	non-Rad	Chromium	7440-47-3	ug/kg	20,225	--[b]	--
116-DR-9_Deep	Rad	Cesium-137	10045-97-3	pCi/g	11	--[b]	--
116-DR-9_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.7	--[b]	--
116-DR-9_Deep	Rad	Europium-152	14683-23-9	pCi/g	26	--[b]	--
116-DR-9_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.5	--[b]	--
116-DR-9_Deep	Rad	Nickel-63	13981-37-8	pCi/g	54	--[b]	--
116-DR-9_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.33	--[b]	--
116-DR-9_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	154	No
116-DR-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	6,000[a]	No
116-DR-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	10	--[b]	--
116-DR-9_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.044	--[b]	--
116-DR-9_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.43	--[b]	--
116-DR-9_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.071	--[b]	--
116-DR-9_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	5.0	--[b]	--
116-DR-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.36	--[b]	--
116-DR-9_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.72	--[b]	--
116-DR-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.26	1,468	No
118-D-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	344	6,000[a]	No
118-D-1_Deep	non-Rad	Mercury	7439-97-6	ug/kg	18	--[b]	--
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	18,960	1.61E+06	No

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	59,000	2.00E+06[c]	No
118-D-1_Deep	Rad	Tritium	10028-17-8	pCi/g	0.081	34	No
118-D-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--[b]	--
118-D-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	245	--[b]	--
118-D-1_Overburden	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	110	21,701	No
118-D-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	397	6,000[a]	No
118-D-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	760	303,076	No
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	870	1.61E+06	No
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,300	2.00E+06[c]	No
118-D-1_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.041	34	No
118-D-1_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	6,000[a]	No
118-D-1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	17	--[b]	--
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,471	1.61E+06	No
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,642	2.00E+06[c]	No
118-D-1_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	1.1	1.8	No
118-D-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.73	82	No
118-D-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	13	--[b]	--
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,382	1.61E+06	No
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	13,056	2.00E+06[c]	No
118-D-1_Shallow_5	Rad	Tritium	10028-17-8	pCi/g	0.030	18	No
118-D-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	261	6,000[a]	No
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	1.61E+06	No
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,000	2.00E+06[c]	No
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	5,090	--[d]	--
118-D-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.050	294	No
118-D-1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.5	--[d]	--
118-D-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.7	--[d]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,800	1.61E+06	No
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,400	2.00E+06[c]	No
118-D-1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	0.37	--[b]	--
118-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	1.3	18	No
118-D-4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	--[b]	--
118-D-4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	500	357,260	No
118-D-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	2,400	--[b]	--
118-D-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	66	--[b]	--
118-D-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	582	357,260	No
118-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--[b]	--
118-D-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--[b]	--
118-D-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.31	--[b]	--
118-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	577	No
118-D-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	900	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	48,100	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[a]	No
118-D-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	58	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	357,260	No
118-D-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	27,300	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	5,460	1.61E+06	No
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,500	1.61E+06	No
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	92,400	--[b]	--
118-D-4_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.45	--[b]	--
118-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	562	--[b]	--
118-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	218	6,000[a]	No
118-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	41	--[b]	--
118-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	979	No
118-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	442	--[b]	--
118-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	235	6,000[a]	No
118-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	950	606,152	No
118-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	20	--[b]	--
118-D-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	979	No
118-D-5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	440	--[b]	--
118-D-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.1	--[b]	--
118-D-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	113	--[b]	--
118-D-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.15	68	No
118-D-6:4_Deep	non-Rad	Antimony	7440-36-0	ug/kg	660	--[b]	--
118-D-6:4_Deep	non-Rad	Aroclor-1254	11097-69-1	ug/kg	4.9	--[b]	--
118-D-6:4_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	570	26,854	No
118-D-6:4_Deep	non-Rad	Chromium	7440-47-3	ug/kg	29,454	--[b]	--
118-D-6:4_Deep	non-Rad	Copper	7440-50-8	ug/kg	22,244	2.86E+08	No
118-D-6:4_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	841	6,000[a]	No
118-D-6:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	169	--[b]	--
118-D-6:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	29	--[b]	--
118-D-6:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.6	--[b]	--
118-D-6:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	--[b]	--
118-D-6:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.99	29,357	No
118-D-6:4_Deep	Rad	Tritium	10028-17-8	pCi/g	0.026	2,057	No
118-D-6:4_Deep_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	73	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,600	26,854	No
118-D-6:4_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	64,800	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	56,600	2.86E+08	No
118-D-6:4_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,640	6,000[a]	No
118-D-6:4_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	380	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,800	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	148,000	--[b]	--
118-D-6:4_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.29	--[b]	--
118-D-6:4_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	85	--[b]	--
118-D-6:4_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.63	--[b]	--
118-D-6:4_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	17	--[b]	--
118-D-6:4_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.0	--[b]	--
118-D-6:4_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	37	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-D-6:4_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.3	--[b]	--
118-D-6:4_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	29,357	No
118-D-6:4_Deep_Focused	Rad	Tritium	10028-17-8	pCi/g	0.056	2,057	No
118-D-6:4_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.2	--[d]	--
118-D-6:4_Deep_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.27	--[d]	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.9	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	403	6,000[a]	No
118-D-6:4_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	13,267	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	31	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	630	557,308	No
118-D-6:4_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.034	2,057	No
118-D-6:4_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	21	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.8	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	559	6,000[a]	No
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1,200	--[b]	--
118-D-6:4_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,344	--[d]	--
118-D-6:4_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.9	--[b]	--
118-D-6:4_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	1.4	--[b]	--
118-D-6:4_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.21	--[b]	--
118-D-6:4_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	29,357	No
118-D-6:4_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0.073	2,057	No
118-D-6:4_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.1	--[d]	--
118-DR-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	248	6,000[a]	No
118-DR-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.77	--[b]	--
118-DR-1_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	124	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,500	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	0.49	--[b]	--
118-DR-1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	9.7	--[b]	--
118-DR-2:2_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	512	--[b]	--
118-DR-2:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	6,000[a]	No
118-DR-2:2_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	--[b]	--
118-DR-2:2_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.12	--[b]	--
118-DR-2:2_Deep	Rad	Carbon-14	14762-75-5	pCi/g	9.4	--[b]	--
118-DR-2:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	12	--[b]	--
118-DR-2:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	4.3	--[b]	--
118-DR-2:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.8	--[b]	--
118-DR-2:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.94	--[b]	--
118-DR-2:2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	47	--[b]	--
118-DR-2:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.2	--[b]	--
118-DR-2:2_Deep	Rad	Technetium-99	14133-76-7	pCi/g	1.1	3.3	No
118-DR-2:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	34	--[b]	--
118-DR-2:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	699	6,000[a]	No
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164	--[b]	--
118-DR-2:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	--[b]	--
118-DR-2:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.45	--[b]	--
118-DR-2:2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.8	--[b]	--
118-DR-2:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.18	--[b]	--
118-DR-2:2_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	2.4	4.1	No
118-DR-2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.88	2,669	No
120-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	720	--[b]	--
120-D-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	6,000[a]	No
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	111	--[b]	--
120-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	605	649,448	No
120-D-2_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	554	18,004	No
120-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	560	649,448	No
122-DR-1:2_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--[b]	--
122-DR-1:2_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	150	--[b]	--
122-DR-1:2_Deep	non-Rad	Chrysene	218-01-9	ug/kg	22	--[b]	--
122-DR-1:2_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	49	--[b]	--
122-DR-1:2_Deep	non-Rad	Pyrene	129-00-0	ug/kg	51	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	66	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	36	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--[b]	--
122-DR-1:2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
122-DR-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	55	--[b]	--
122-DR-1:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	19	42,031	No
122-DR-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	110	--[b]	--
122-DR-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
126-D-2_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.2	--[b]	--
126-D-2_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--[b]	--
126-D-2_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.8	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	10	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.0	--[b]	--
126-D-2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	16	--[b]	--
126-D-2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	16	--[b]	--
126-D-2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	27	--[b]	--
126-D-2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	7.2	--[b]	--
126-D-2_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	95	--[b]	--
126-D-2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.57	--[b]	--
126-D-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	13	2.36E+06	No
126-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	577	--[b]	--
126-D-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.3	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
126-D-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	14	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	23	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--[b]	--
126-D-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	188	--[b]	--
126-D-2_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.45	--[b]	--
126-D-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	38	--[b]	--
126-D-2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--[b]	--
126-D-2_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	0.42	48	No
126-D-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	58	--[b]	--
126-D-2_Shallow	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	7.8	--[b]	--
126-D-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.0	--[b]	--
126-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	17	--[b]	--
126-D-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	14	960	No
126-D-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	37	--[b]	--
126-D-2_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	92	391	No
126-D-2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	--[b]	--
126-D-2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	75	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	240	11,452	No
126-D-2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	9.2	2.36E+06	No
126-D-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	620	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.0	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	35	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	35	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,280	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	7,900	47,135	No
126-D-2_Shallow_Focused	non-Rad	Chlordane	57-74-9	ug/kg	0.31	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	23	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.39	972	No
126-D-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	221	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	63	12,220	No
126-D-2_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	5.8	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	72,000	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	23	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	0.86	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	105	960	No
126-D-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	64	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	69,000	1.61E+06	No
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	160,000	2.00E+06[c]	No
128-D-2_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.51	--[b]	--
128-D-2_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	9.2	1,685	No
128-D-2_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	36	--[b]	--
128-D-2_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	77	--[b]	--
128-D-2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--[b]	--
128-D-2_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	81	--[b]	--
128-D-2_Shallow_1	non-Rad	Chloroform	67-66-3	ug/kg	0.87	0.59	Yes
128-D-2_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	400	6,616	No
128-D-2_Shallow_1	non-Rad	Ethylbenzene	100-41-4	ug/kg	0.64	3.8	No
128-D-2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	41	--[b]	--
128-D-2_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.1	1.3	Yes
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,100	924	Yes
128-D-2_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	1.4	461	No
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,691	1.61E+06	No
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	16,599	2.00E+06[c]	No
128-D-2_Shallow_1	non-Rad	Xylenes (total)	1330-20-7	ug/kg	2.7	1,682	No
128-D-2_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	6,101	No
128-D-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	6,000[c]	No
128-D-2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	18	--[b]	--
128-D-2_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	10	4.8	Yes
128-D-2_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	190	9,288	No
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,500	1.61E+06	No
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,300	2.00E+06[c]	No
128-D-2_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.24	489	No
130-D-1_Shallow	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	0.88	70	No
130-D-1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	188,583	No
130-D-1_Shallow	non-Rad	Acetone	67-64-1	ug/kg	13	36,536	No
130-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	24	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	16	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	69	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--[b]	--
130-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	51	--[b]	--
130-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	43	--[b]	--
130-D-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	63	--[b]	--
130-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	29	No
130-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	56	--[b]	--
130-D-1_Shallow	non-Rad	Toluene	108-88-3	ug/kg	2.7	9,989	No
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,333	1.61E+06	No
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	9,898	2.00E+06[c]	No
130-D-1_Shallow_Focused	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.9	70	No
130-D-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.2	29	No
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	64,000	1.61E+06	No
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	110,000	2.00E+06[c]	No
130-D-1_Staging Pile Area Footprint	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.0	70	No
130-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
130-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,900	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	29	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	45	143,480	No
130-D-1_Staging Pile Area Footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	29	No
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,162	1.61E+06	No
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	18,492	2.00E+06[c]	No
132-D-1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	6.3	--[b]	--
132-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	230	--[b]	--
132-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.0	--[b]	--
132-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--[b]	--
132-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.9	--[b]	--
132-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	164	6,000[a]	No
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1,000	--[b]	--
132-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	580	606,152	No
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	860	6,693	No
132-D-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--[b]	--
132-D-1_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.84	69	No
132-D-1_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	39	9.15E+06	No
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	35	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	18	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	225	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	174	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	161	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	59	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	193	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	54	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	44	33,828	No
132-D-1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	402	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	68	47,441	No
132-D-1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	6,000[a]	No
132-D-1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	680	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	439	--[b]	--
132-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	0.065	48	No
1607-D1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--[b]	--
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,367	10,288	No
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,650	10,288	No
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	940	10,288	No
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,444	10,288	No
1607-D1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	18	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,500	10,288	No
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,600	10,288	No
1607-D1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	15	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,900	10,288	No
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,226	10,288	No
1607-D2-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.050	--[b]	--
1607-D2-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	--[b]	--
1607-D2-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.38	--[b]	--
1607-D2-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,211	--[b]	--
1607-D2-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	447	--[b]	--
1607-D2-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	157	--[b]	--
1607-D2-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	249,126	3.89E+08	No
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,771	--[b]	--
1607-D2-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	25,777	2.86E+08	No
1607-D2-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	6,000[a]	No
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	484	--[b]	--
1607-D2-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	643	1.82E+07	No
1607-D2-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	204,415	2.27E+06	No
1607-D2-2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	55,960	504,120	No
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	11,800	557,308	No
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	91,971	--[b]	--
1607-D2-3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.075	--[b]	--
1607-D2-3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.60	--[b]	--
1607-D2-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	25	--[b]	--
1607-D2-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	31	--[b]	--
1607-D2-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--[b]	--
1607-D2-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.037	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	100	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	60	1.69E+06	No
1607-D4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	715	413,213	No
1607-D5_Shallow	non-Rad	2,4-Dinitrophenol	51-28-5	ug/kg	370	1,322	No
1607-D5_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	34	52,912	No
1607-D5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--[b]	--
1607-D5_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	4.0	--[b]	--
1607-D5_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.80	--[b]	--
1607-D5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.20E+07	--[b]	--
1607-D5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	163	3.19E+08	No
1607-D5_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	12	--[b]	--
1607-D5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	775,391	3.19E+08	No
1607-D5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,962	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	405	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	449	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	253	--[b]	--
1607-D5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	69,503	6.37E+06	No
1607-D5_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	48	9,822	No
1607-D5_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.2	--[b]	--

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
1607-D5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	779	--[b]	--
1607-D5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	31,565	2.35E+08	No
1607-D5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	99	--[b]	--
1607-D5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,925	--[b]	--
1607-D5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	125	1.65E+06	No
1607-D5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	160	--[b]	--
1607-D5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	106,537	--[b]	--
1607-D5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	25	--[b]	--
1607-D5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,201	1.49E+07	No
1607-D5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,855	413,213	No
1607-D5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,528	413,213	No
1607-D5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2,647	--[b]	--
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	21,904	1.61E+06	No
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	37,994	2.00E+06[c]	No
600-30_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	408	--[b]	--
600-30_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	230	6,000[a]	No
600-30_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	6,410	1.61E+06	No
600-30_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	101	--[b]	--
600-30_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	294	6,000[a]	No
600-30_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	170	11,146	No
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	820	1.61E+06	No
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,275	2.00E+06[c]	No
600-30_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	430	--[b]	--
600-30_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--[b]	--
600-30_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	210	6,000[a]	No
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,643	1.61E+06	No
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,600	2.00E+06[c]	No
600-30_Shallow_Focused	non-Rad	Aldrin	309-00-2	ug/kg	1.7	--[b]	--
600-30_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	349	--[b]	--
600-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	270	6,000[a]	No
600-30_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,800	--[b]	--
600-30_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	52,500	1.61E+06	No
628-3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	15,271	No
628-3_Shallow	non-Rad	Aldrin	309-00-2	ug/kg	1.5	--[b]	--
628-3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3,150	--[b]	--
628-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
628-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.7	--[b]	--
628-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.3	--[b]	--
628-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.1	--[b]	--
628-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.5	--[b]	--
628-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--[b]	--
628-3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.6	--[b]	--
628-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,972	--[b]	--
628-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	165	--[b]	--
628-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	3.6	--[b]	--
628-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,961	1.61E+06	No
628-3_Staging Pile Area_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.4	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.4	15,271	No
628-3_Staging Pile Area_2	non-Rad	Anthracene	120-12-7	ug/kg	8.6	3.14E+06	No
628-3_Staging Pile Area_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	13	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.1	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.9	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.3	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Chrysene	218-01-9	ug/kg	6.7	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.0	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Fluoranthene	206-44-0	ug/kg	35	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	ug/kg	113	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Pyrene	129-00-0	ug/kg	11	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,200	1.61E+06	No
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,900	2.00E+06[c]	No
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,486	1.61E+06	No
628-3_Staging Pile Area_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.8	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.6	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	ug/kg	41,154	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Chrysene	218-01-9	ug/kg	1.9	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Lead	7439-92-1	ug/kg	13,526	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Mercury	7439-97-6	ug/kg	30	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Molybdenum	7439-98-7	ug/kg	474	146,958	No
628-3_Staging Pile Area_3	non-Rad	Pyrene	129-00-0	ug/kg	3.0	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,203	1.61E+06	No
628-3_Staging Pile Area_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.5	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.4	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.8	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.3	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Chrysene	218-01-9	ug/kg	3.4	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	26	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.9	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.5	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	20,300	1.61E+06	No

Table 7-4. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
UPR-100-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	485	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	4.3	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	6,000[a]	No
UPR-100-D-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	190	35,273	No
UPR-100-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	1,858	No
UPR-100-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	370	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[a]	No
UPR-100-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	170	35,273	No

Notes:

a. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

b. The calculated soil screening level for the analyte is considered non-representative because breakthrough was not simulated to occur within 1000 years in more than one of the set of representative stratigraphic columns, where breakthrough is defined as a mass concentration exceeding 0.0001 µg/L for nonradionuclides or an activity concentration exceeding 0.0001 pCi/L for radionuclides.

c. The soil screening level for Total Petroleum Hydrocarbons is a default screening level obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."

d. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC. However, uranium has been previously identified in association with the 183-H Solar Evaporation Basin as an indicator parameter for that RCRA site. Uranium has been detected above the RCRA permit levels and was detected above the DWS in 2012 in one location. While the analyte does not constitute a groundwater risk, it is being carried forward into the FS as a COC for the area local to 183-H only, based on detections in groundwater.

-- = Not applicable or no value.

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	417	6,000[a]	No
100-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.4	--[b]	--
100-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	17	--[b]	--
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,187	--[b]	--
100-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	43,478	--[b]	--
100-D-13_Shallow_Focused	non-Rad	2-(2-methyl-4-chlorophenoxy) propionic acid	93-65-2	ug/kg	2,000	--[b]	--
100-D-13_Shallow_Focused	non-Rad	2,4-DB(4-(2,4-Dichlorophenoxy)butanoic acid)	94-82-6	ug/kg	11	--[b]	--
100-D-13_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.66	--[c]	--
100-D-13_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,900	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	64	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Dinoseb(2-secButyl-4,6-dinitrophenol)	88-85-7	ug/kg	3.0	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	14	--[c]	--
100-D-13_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,700	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Phenol	108-95-2	ug/kg	22	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	890	359	Yes
100-D-13_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,600	--[b]	--
100-D-13_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	122,000	--[c]	--
100-D-15_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.4	--[c]	--
100-D-15_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--[c]	--
100-D-15_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	130	6,000[a]	No
100-D-15_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	29	--[c]	--
100-D-15_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,272	--[b]	--
100-D-15_Shallow_2	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	3.6	--[b]	--
100-D-15_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.7	--[b]	--
100-D-15_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	427	--[b]	--
100-D-15_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	965	23	Yes
100-D-15_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	173	6,000[a]	No
100-D-15_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	25	--[c]	--
100-D-15_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	553	--[b]	--
100-D-15_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	32,560	--[b]	--
100-D-15_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	92,810	--[c]	--
100-D-18_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	2,600	6,000[a]	No
100-D-18_Deep	Rad	Cesium-137	10045-97-3	pCi/g	18	--[c]	--
100-D-18_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	--[c]	--
100-D-18_Deep	Rad	Europium-152	14683-23-9	pCi/g	9.8	--[c]	--
100-D-18_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	--[c]	--
100-D-18_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.10	--[c]	--
100-D-18_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	1,957	No
100-D-19_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	1,580	--[c]	--
100-D-19_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.37	--[c]	--
100-D-19_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	817	--[c]	--
100-D-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	410	6,000[a]	No
100-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	920	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Strontium	7440-24-6	ug/kg	24,600	--[b]	--
100-D-2_Shallow_Focused	non-Rad	Tin	7440-31-5	ug/kg	2,400	--[b]	--
100-D-20_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.21	--[c]	--
100-D-20_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.5	--[c]	--
100-D-20_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.072	--[c]	--
100-D-20_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.55	--[c]	--
100-D-20_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.041	--[c]	--
100-D-22_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.059	--[c]	--
100-D-22_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.033	--[c]	--
100-D-22_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--[c]	--
100-D-22_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	930	No
100-D-24_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	58	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	22	--[b]	--
100-D-24_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	243	6,000[a]	No
100-D-24_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	--[c]	--
100-D-24_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	7.1	--[b]	--
100-D-28:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	32	--[b]	--
100-D-28:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	616	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	879	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	127	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	165	--[b]	--
100-D-28:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	80	--[b]	--
100-D-28:1_Overburden	non-Rad	Carbazole	86-74-8	ug/kg	76	--[b]	--
100-D-28:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	559	--[b]	--
100-D-28:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	48	--[b]	--
100-D-28:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	374	--[b]	--
100-D-28:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	284	6,000[a]	No
100-D-28:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	96	--[b]	--
100-D-28:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	13,258	--[c]	--
100-D-28:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	79	--[c]	--
100-D-28:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	827	--[b]	--
100-D-28:1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	45	--[b]	--
100-D-28:1_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	110	--[b]	--
100-D-28:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	380	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	32	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-28:1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	47	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--[b]	--
100-D-28:1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	20	--[b]	--
100-D-28:1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	--[b]	--
100-D-28:1_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	--[b]	--
100-D-28:1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	47	--[b]	--
100-D-28:1_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	43	--[b]	--
100-D-28:1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	30	--[b]	--
100-D-28:1_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	50	--[b]	--
100-D-28:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	203	6,000[a]	No
100-D-28:1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--[b]	--
100-D-28:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	572	--[c]	--
100-D-28:1_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	46	--[b]	--
100-D-28:1_Shallow	non-Rad	Phenol	108-95-2	ug/kg	28	--[b]	--
100-D-28:1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	91	--[b]	--
100-D-28:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	20,079	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.97	--[c]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.49	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	3.3	--[c]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	21	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	20	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	48	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	28	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	237	6,000[a]	No
100-D-28:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[b]	--
100-D-28:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
100-D-29_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	686	--[b]	--
100-D-29_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.014	72	No
100-D-29_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	618	--[b]	--
100-D-29_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,333	--[b]	--
100-D-29_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.014	72	No
100-D-29_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	400	--[b]	--
100-D-29_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.034	72	No
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Acetone	67-64-1	ug/kg	6.7	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.8	--[c]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.5	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.2	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.2	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	1.7	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	4.6	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.8	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	710	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--[b]	--
100-D-31:1, 100-D-31:2_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,120	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Acetone	67-64-1	ug/kg	4.3	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.0	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	659	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	16	--[c]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	11	--[c]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.0	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.9	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.3	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.9	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.4	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.3	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	205	6,000[a]	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	17	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	3.9	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	1,800	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	8,617	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	10	--[b]	--
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	174	18,173	No
100-D-31:1, 100-D-31:2_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	22,432	--[b]	--
100-D-31:10_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.48	--[b]	--
100-D-31:10_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:10_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	412	6,000[a]	No
100-D-31:10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	--[c]	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,040	--[b]	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	400	--[b]	--
100-D-31:10_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	880	--[b]	--
100-D-31:10_Overburden	non-Rad	Phenol	108-95-2	ug/kg	29	--[b]	--
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,978	--[b]	--
100-D-31:10_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,361	--[b]	--
100-D-31:10_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	20	--[c]	--
100-D-31:10_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	29,357	No
100-D-31:10_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.2	--[b]	--
100-D-31:10_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.4	--[c]	--
100-D-31:10_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--[b]	--
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	7,582	--[b]	--
100-D-31:10_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,545	--[b]	--
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,000	--[b]	--
100-D-31:10_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,700	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.71	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	91	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,200	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,500	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	--[b]	--
100-D-31:10_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,600	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.6	--[c]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	100	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	200	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	159	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	114	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	79	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	48	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	94	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	83	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	182	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	59	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	177	6,000[a]	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	201	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	--[c]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	47	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	618	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	410	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	590	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	630	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,200	20,079	No
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,558	--[b]	--
100-D-31:3, 100-D-31:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	29,357	No
100-D-31:3_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.26	--[b]	--
100-D-31:3_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--[c]	--
100-D-31:3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	20	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--[b]	--
100-D-31:3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	10	--[b]	--
100-D-31:3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	4,300	--[b]	--
100-D-31:3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	45	--[b]	--
100-D-31:3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	97	--[b]	--
100-D-31:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	181	6,000[a]	No
100-D-31:3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	54	--[b]	--
100-D-31:3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	19	--[c]	--
100-D-31:3_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	--[b]	--
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,219	--[b]	--
100-D-31:3_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,248	--[b]	--
100-D-31:3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	97	--[b]	--
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,767	--[b]	--
100-D-31:3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,440	--[b]	--
100-D-31:4_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	23	--[b]	--
100-D-31:4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.61	--[b]	--
100-D-31:4_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.4	--[b]	--
100-D-31:4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	562	--[b]	--
100-D-31:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	19	--[c]	--
100-D-31:4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	649	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1,900	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,600	--[b]	--
100-D-31:4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	920	--[b]	--
100-D-31:4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	138	--[b]	--
100-D-31:4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	230	--[b]	--
100-D-31:4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.37	--[c]	--
100-D-31:4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	1,900	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	176	--[b]	--
100-D-31:4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	92	--[b]	--
100-D-31:4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	4,200	--[b]	--
100-D-31:4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	243	--[b]	--
100-D-31:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	437	6,000[a]	No
100-D-31:4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	975	--[b]	--
100-D-31:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	42	--[c]	--
100-D-31:4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.3	--[b]	--
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	566	--[b]	--
100-D-31:4_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	436	--[b]	--
100-D-31:4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,276	--[b]	--
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	9,750	--[b]	--
100-D-31:4_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	36,219	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	473	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	5.7	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	6,000[a]	No
100-D-31:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	472	--[b]	--
100-D-31:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,480	--[b]	--
100-D-31:5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	259,914	--[b]	--
100-D-31:5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	20,105	--[b]	--
100-D-31:5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	142	--[c]	--
100-D-31:5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	1,146	--[b]	--
100-D-31:5_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	1,728	20,079	No
100-D-31:5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	144,277	--[b]	--
100-D-31:5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	10,484	--[b]	--
100-D-31:5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	240	--[c]	--
100-D-31:5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	700	--[b]	--
100-D-31:5_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,500	20,079	No
100-D-31:5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	89,617	--[c]	--
100-D-31:6_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.30	--[b]	--
100-D-31:6_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	556	--[b]	--
100-D-31:6_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,998	--[b]	--
100-D-31:6_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	14	--[b]	--
100-D-31:6_Overburden	non-Rad	Copper	7440-50-8	ug/kg	24,687	4.03E+06	No
100-D-31:6_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	3.0	2,774	No
100-D-31:6_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.0	--[c]	--
100-D-31:6_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	607	6,000[a]	No
100-D-31:6_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	870	--[c]	--
100-D-31:6_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,654	--[b]	--
100-D-31:6_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	800	--[b]	--
100-D-31:6_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.0	--[b]	--
100-D-31:6_Shallow	non-Rad	Boron	7440-42-8	ug/kg	5,860	--[b]	--
100-D-31:6_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.3	--[b]	--
100-D-31:6_Shallow	non-Rad	Copper	7440-50-8	ug/kg	26,377	4.03E+06	No
100-D-31:6_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	363	6,000[a]	No
100-D-31:6_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	577	--[c]	--
100-D-31:6_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	6,985	--[b]	--
100-D-31:7_Overburden	non-Rad	2-Butanone	78-93-3	ug/kg	2.0	--[b]	--
100-D-31:7_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.67	--[b]	--
100-D-31:7_Overburden	non-Rad	Acetone	67-64-1	ug/kg	13	--[b]	--
100-D-31:7_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	404	--[b]	--
100-D-31:7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.2	--[c]	--
100-D-31:7_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
100-D-31:7_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	1,700	--[b]	--
100-D-31:7_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	73	--[b]	--
100-D-31:7_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	--[b]	--
100-D-31:7_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	514	--[b]	--
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	939	--[b]	--
100-D-31:7_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	687	--[b]	--
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,767	--[b]	--
100-D-31:7_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,876	--[b]	--
100-D-31:7_Shallow	non-Rad	2-Butanone	78-93-3	ug/kg	1.8	--[b]	--
100-D-31:7_Shallow	non-Rad	Acetone	67-64-1	ug/kg	8.0	--[b]	--
100-D-31:7_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--[b]	--
100-D-31:7_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	92	--[c]	--
100-D-31:7_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	--[b]	--
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	696	--[b]	--
100-D-31:7_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,459	--[b]	--
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	900	--[b]	--
100-D-31:7_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,100	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	63	--[b]	--
100-D-31:7_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	700	--[b]	--
100-D-31:8_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.0	--[b]	--
100-D-31:8_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.0	--[b]	--
100-D-31:8_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	13	--[b]	--
100-D-31:8_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	332	6,000[a]	No
100-D-31:8_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	480	--[b]	--
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,023	--[b]	--
100-D-31:8_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	783	--[b]	--
100-D-31:8_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,917	--[b]	--
100-D-31:8_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.92	29,357	No

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-31:8_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.63	--[c]	--
100-D-31:8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.9	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	12	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	12	--[b]	--
100-D-31:8_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.9	--[b]	--
100-D-31:8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	103	--[b]	--
100-D-31:8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	9.2	--[b]	--
100-D-31:8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--[b]	--
100-D-31:8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	630	--[b]	--
100-D-31:8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	563	--[b]	--
100-D-31:8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	27	--[b]	--
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	--[b]	--
100-D-31:8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,100	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Antimony	7440-36-0	ug/kg	446	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	190	6,000[a]	No
100-D-31:8_Shallow_Focused_1	non-Rad	Isophorone	78-59-1	ug/kg	77	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Mercury	7439-97-6	ug/kg	26	--[c]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	502	--[b]	--
100-D-31:8_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	94,900	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	2.06E+07	--[c]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	1.57E+06	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	169,000	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	42,400	4.03E+06	No
100-D-31:8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	24,200	--[c]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	120	--[c]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	2,300	--[b]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	19,700	--[c]	--
100-D-31:8_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	83,000	--[c]	--
100-D-31:9_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	31	--[b]	--
100-D-31:9_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	12	--[c]	--
100-D-31:9_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--[b]	--
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	652	--[b]	--
100-D-31:9_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,300	--[b]	--
100-D-31:9_Overburden	non-Rad	Phenol	108-95-2	ug/kg	24	--[b]	--
100-D-31:9_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,800	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	14	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--[b]	--
100-D-31:9_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	11	--[b]	--
100-D-31:9_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	114	--[b]	--
100-D-31:9_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	19	--[b]	--
100-D-31:9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	222	6,000[a]	No
100-D-31:9_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	12	--[b]	--
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	607	--[b]	--
100-D-31:9_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	690	--[b]	--
100-D-31:9_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	70	--[b]	--
100-D-32_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	--[b]	--
100-D-32_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	549	--[b]	--
100-D-32_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	826	--[b]	--
100-D-32_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	568	--[b]	--
100-D-32_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--[c]	--
100-D-4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,274	--[b]	--
100-D-4_Overburden	Rad	Uranium-238	U-238	pCi/g	1.1	--[b]	--
100-D-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	71	--[c]	--
100-D-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	120	--[c]	--
100-D-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	199	6,000[a]	No
100-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[c]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	393	--[b]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Copper	7440-50-8	ug/kg	26,641	390,570	No
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	--[c]	--
100-D-42, 100-D-43, 100-D-45_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	513	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	456	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Copper	7440-50-8	ug/kg	90,384	390,570	No
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	--[c]	--
100-D-42, 100-D-43, 100-D-45_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	520	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	--[c]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.9	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	530	--[b]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.2	--[c]	--
100-D-42, 100-D-43, 100-D-45_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	464	--[c]	--
100-D-47_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	789	--[b]	--
100-D-47_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	492	--[b]	--
100-D-47_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.0	898	No

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-47_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	501	--[b]	--
100-D-47_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.60	--[c]	--
100-D-47_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--[c]	--
100-D-47_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.2	--[c]	--
100-D-47_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.93	898	No
100-D-47_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	700	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	320	6,000[a]	No
100-D-47_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	--[b]	--
100-D-47_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	85,700	--[b]	--
100-D-47_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	--[c]	--
100-D-47_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	1.5	--[c]	--
100-D-47_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	36	--[c]	--
100-D-47_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.2	2,744	No
100-D-48:1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	5,010	6,000[a]	No
100-D-48:1_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.26	--[c]	--
100-D-48:1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	30	--[c]	--
100-D-48:1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	8.1	--[c]	--
100-D-48:1_Deep	Rad	Europium-152	14683-23-9	pCi/g	64	--[c]	--
100-D-48:1_Deep	Rad	Europium-154	15585-10-1	pCi/g	4.8	--[c]	--
100-D-48:1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.51	--[c]	--
100-D-48:1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.68	29,357	No
100-D-48:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	643	6,000[a]	No
100-D-48:1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.31	--[c]	--
100-D-48:1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	29,357	No
100-D-48:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.8	--[c]	--
100-D-48:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.39	--[c]	--
100-D-48:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	3.2	--[c]	--
100-D-48:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.53	--[c]	--
100-D-48:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.077	--[c]	--
100-D-48:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	29,357	No
100-D-48:2_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	608	6,000[a]	No
100-D-48:2_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	--[c]	--
100-D-48:2_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.11	--[c]	--
100-D-48:2_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.025	--[c]	--
100-D-48:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.096	--[c]	--
100-D-48:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.56	--[c]	--
100-D-48:2_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	--[c]	--
100-D-48:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.046	--[c]	--
100-D-48:3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	587	6,000[a]	No
100-D-48:3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.7	--[c]	--
100-D-48:3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	--[c]	--
100-D-48:3_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.67	--[c]	--
100-D-48:3_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.071	--[c]	--
100-D-48:3_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.19	--[c]	--
100-D-48:3_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	29,357	No
100-D-48:3_Overburden	Rad	Americium-241	14596-10-2	pCi/g	0.052	--[c]	--
100-D-48:3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.040	--[c]	--
100-D-48:3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.25	--[c]	--
100-D-48:3_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	0.37	--[c]	--
100-D-48:3_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.4	--[c]	--
100-D-48:3_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	802	6,000[a]	No
100-D-48:3_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.053	--[c]	--
100-D-48:3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.13	--[c]	--
100-D-48:3_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.061	--[c]	--
100-D-48:3_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.7	29,357	No
100-D-48:4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	6,000[a]	No
100-D-48:4_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.029	--[c]	--
100-D-48:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.043	--[c]	--
100-D-48:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[c]	--
100-D-48:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.028	--[c]	--
100-D-48:4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.44	29,357	No
100-D-49:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,300	6,000[a]	No
100-D-49:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	62	--[c]	--
100-D-49:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.6	--[c]	--
100-D-49:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	24	--[c]	--
100-D-49:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.9	--[c]	--
100-D-49:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.26	--[c]	--
100-D-49:2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	29,357	No
100-D-49:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.24	--[c]	--
100-D-49:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	42	--[c]	--
100-D-49:4_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.040	--[c]	--
100-D-49:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	2.1	--[c]	--
100-D-49:4_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	--[c]	--
100-D-49:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	8.3	--[c]	--
100-D-49:4_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.1	--[c]	--
100-D-49:4_Deep	Rad	Nickel-63	13981-37-8	pCi/g	3.0	--[c]	--
100-D-49:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.22	--[c]	--
100-D-49:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	29,357	No
100-D-49:4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	170	--[c]	--
100-D-49:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	21,359	--[c]	--
100-D-49:4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	33	--[c]	--
100-D-49:4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.058	--[c]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-49:4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.5	--[c]	--
100-D-49:4_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.20	--[c]	--
100-D-49:4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	--[c]	--
100-D-52_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.36	--[c]	--
100-D-56:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	1,200	--[b]	--
100-D-56:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	5,633	--[b]	--
100-D-56:1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	3,300	--[b]	--
100-D-56:1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	271	6,000[a]	No
100-D-56:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	75	--[c]	--
100-D-56:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	950	--[b]	--
100-D-56:1_Overburden	non-Rad	Nitrite	14797-65-0	ug/kg	4,080	--[b]	--
100-D-56:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	2,100	20,079	No
100-D-56:1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,100	--[b]	--
100-D-56:1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[a]	No
100-D-56:1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	20	--[c]	--
100-D-56:1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,700	20,079	No
100-D-56:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,000	--[b]	--
100-D-56:1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[a]	No
100-D-56:1_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	240	18,173	No
100-D-56:2_Overburden_4	non-Rad	Antimony	7440-36-0	ug/kg	500	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	371	6,000[a]	No
100-D-56:2_Overburden_4	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	1,188	--[b]	--
100-D-56:2_Overburden_4	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	638	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	223	6,000[a]	No
100-D-56:2_Overburden_5	non-Rad	Mercury	7439-97-6	ug/kg	21	--[c]	--
100-D-56:2_Overburden_5	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	1,535	--[b]	--
100-D-56:2_Overburden_5	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	492	--[b]	--
100-D-56:2_Overburden_Focused_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	493	6,000[a]	No
100-D-56:2_Overburden_Focused_2	non-Rad	Fluoride	16984-48-8	ug/kg	3,400	--[b]	--
100-D-56:2_Overburden_Focused_2	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	1,300	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	420	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	244	6,000[a]	No
100-D-56:2_Shallow_1	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	903	--[b]	--
100-D-56:2_Shallow_1	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	513	--[b]	--
100-D-56:2_Shallow_2	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	3,478	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	659	6,000[a]	No
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,431	--[b]	--
100-D-56:2_Shallow_3	non-Rad	Nitrogen in Nitrite	NO2-N	ug/kg	675	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	390	--[b]	--
100-D-56:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	29,300	--[c]	--
100-D-56:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	662	6,000[a]	No
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	84	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Chrysene	218-01-9	ug/kg	29	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	590	--[b]	--
100-D-56:2_Staging pile area footprint_focused	non-Rad	Pyrene	129-00-0	ug/kg	15	--[b]	--
100-D-61_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.3	--[b]	--
100-D-61_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	5.2	--[b]	--
100-D-61_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	491	--[b]	--
100-D-61_Shallow	non-Rad	Barium	7440-39-3	ug/kg	158,794	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	16	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.5	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.5	--[b]	--
100-D-61_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.6	--[b]	--
100-D-61_Shallow	non-Rad	Boron	7440-42-8	ug/kg	11,172	--[b]	--
100-D-61_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	15	--[b]	--
100-D-61_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--[b]	--
100-D-61_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--[b]	--
100-D-61_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	2.6	--[b]	--
100-D-61_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	6,000[a]	No
100-D-61_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	516	--[b]	--
100-D-61_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	43	--[b]	--
100-D-61_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	1,040	710	Yes
100-D-61_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	11,436	--[b]	--
100-D-7_Shallow_1	non-Rad	2-Butanone	78-93-3	ug/kg	1.7	--[b]	--
100-D-7_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--[c]	--
100-D-7_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	15	--[b]	--
100-D-7_Shallow_1	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	--[b]	--
100-D-7_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	30	--[b]	--
100-D-7_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	130	--[b]	--
100-D-7_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	68	--[b]	--
100-D-7_Shallow_1	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.52	0.96	No
100-D-7_Shallow_1	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.75	0.92	No
100-D-7_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	184	6,000[a]	No
100-D-7_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	29	--[b]	--
100-D-7_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-7_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	834	207	Yes
100-D-7_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	0.91	--[b]	--
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,386	--[b]	--
100-D-7_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,725	--[b]	--
100-D-7_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.55	--[b]	--
100-D-7_Shallow_2	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.88	--[c]	--
100-D-7_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	--[b]	--
100-D-7_Shallow_2	non-Rad	Alpha-BHC	319-84-6	ug/kg	0.22	--[b]	--
100-D-7_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--[b]	--
100-D-7_Shallow_2	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.59	0.96	No
100-D-7_Shallow_2	non-Rad	Gamma-BHC (Lindane)	58-89-9	ug/kg	0.85	0.92	No
100-D-7_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	236	6,000[a]	No
100-D-7_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.2	--[b]	--
100-D-7_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	410	187	Yes
100-D-7_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,700	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	6.3	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Alpha-BHC	319-84-6	ug/kg	5.0	--[b]	--
100-D-7_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.82	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.6	--[c]	--
100-D-7_Staging pile area footprint	non-Rad	Acetone	67-64-1	ug/kg	6.2	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	100	--[c]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	7.9	--[c]	--
100-D-7_Staging pile area footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	49	--[c]	--
100-D-7_Staging pile area footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,100	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	452	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	285	6,000[a]	No
100-D-7_Staging pile area footprint	non-Rad	Mercury	7439-97-6	ug/kg	304	--[c]	--
100-D-7_Staging pile area footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.7	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	710	187	Yes
100-D-7_Staging pile area footprint	non-Rad	Toluene	108-88-3	ug/kg	0.72	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,152	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,699	--[b]	--
100-D-7_Staging pile area footprint	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.0	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	73,900	4.03E+06	No
100-D-70_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.7	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,200	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,000	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,400	--[b]	--
100-D-70_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	78,800	--[c]	--
100-D-74_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	10	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	8.9	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--[b]	--
100-D-74_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	--[c]	--
100-D-74_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	40	--[b]	--
100-D-75:3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	17	--[c]	--
100-D-75:3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,400	--[b]	--
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,300	--[b]	--
100-D-80:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,600	--[b]	--
100-D-82_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.5	--[c]	--
100-D-82_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	134,000	--[c]	--
100-D-83:4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	550	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	172	6,000[a]	No
100-D-83:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	950	--[c]	--
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,600	--[b]	--
100-D-83:4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,500	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.4	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	79	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Diethylphthalate	84-66-2	ug/kg	72	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	120	--[c]	--
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	9,400	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	10,200	--[b]	--
100-D-84:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,400	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	480	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	45	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	55	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	64	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	41	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	36	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	19,300	--[c]	--
100-D-87_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	16	--[c]	--
100-D-87_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	55	--[b]	--
100-D-87_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,600	--[c]	--
100-D-88_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	510	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--[c]	--
100-D-88_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	29,200	4.03E+06	No
100-D-88_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	6,000[a]	No
100-D-88_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,900	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-D-88_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,800	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,300	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	15,000	--[b]	--
100-D-88_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	104,000	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Acetone	67-64-1	ug/kg	7.0	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	29	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	25	--[b]	--
100-D-9_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	8.0	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	450	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,700	--[c]	--
100-D-94_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	580	--[c]	--
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,800	--[b]	--
100-D-94_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,700	--[b]	--
116-D-10_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	463	--[b]	--
116-D-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	213	6,000[a]	No
116-D-10_Staging Pile Area	non-Rad	Antimony	7440-36-0	ug/kg	484	--[b]	--
116-D-10_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	168	6,000[a]	No
116-D-10_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	15	--[c]	--
116-D-10_Staging Pile Area	non-Rad	Silver	7440-22-4	ug/kg	180	1,196	No
116-D-10_Staging Pile Area	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.89	1,931	No
116-D-1A_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,740	6,000[a]	No
116-D-1A_Deep	Rad	Americium-241	14596-10-2	pCi/g	1.7	--[c]	--
116-D-1A_Deep	Rad	Cesium-137	10045-97-3	pCi/g	409	--[c]	--
116-D-1A_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	7.8	--[c]	--
116-D-1A_Deep	Rad	Europium-152	14683-23-9	pCi/g	193	--[c]	--
116-D-1A_Deep	Rad	Europium-154	15585-10-1	pCi/g	16	--[c]	--
116-D-1A_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.20	--[c]	--
116-D-1A_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	11	--[c]	--
116-D-1A_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	21	29,357	No
116-D-1A_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	611	6,000[a]	No
116-D-1A_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.15	--[c]	--
116-D-1A_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--[c]	--
116-D-1A_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	9,786	No
116-D-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.96	--[c]	--
116-D-5_Deep	non-Rad	Antimony	7440-36-0	ug/kg	358	--[b]	--
116-D-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	95	--[b]	--
116-D-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	63	--[b]	--
116-D-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	100	--[b]	--
116-D-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--[b]	--
116-D-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	--[b]	--
116-D-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	87	--[b]	--
116-D-5_Deep	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	36	--[b]	--
116-D-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	90	--[b]	--
116-D-5_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	353	6,000[a]	No
116-D-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	62	--[b]	--
116-D-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	318	--[c]	--
116-D-5_Deep	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	11,300	--[b]	--
116-D-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	7,925	--[b]	--
116-D-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	155	--[b]	--
116-D-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	1.1	--[c]	--
116-D-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	0.52	--[c]	--
116-D-5_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.28	839	No
116-D-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	12	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	55	--[b]	--
116-D-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--[b]	--
116-D-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	854	--[b]	--
116-D-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	33	--[b]	--
116-D-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.5	--[b]	--
116-D-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	131	--[b]	--
116-D-5_Overburden	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	1.5	--[c]	--
116-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	151	6,000[a]	No
116-D-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[b]	--
116-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	16	--[c]	--
116-D-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,757	--[b]	--
116-D-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	79	--[b]	--
116-D-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.10	--[c]	--
116-D-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	2.8	--[c]	--
116-D-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	10	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[b]	--
116-D-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.0	--[b]	--
116-D-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	13	--[b]	--
116-D-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	13	--[b]	--
116-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	6,000[a]	No
116-D-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--[b]	--
116-D-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	65	--[c]	--
116-D-5_Shallow	non-Rad	Nitrite	14797-65-0	ug/kg	91,100	--[b]	--
116-D-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,479	--[b]	--
116-D-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	14	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	1,300	519	Yes
116-D-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	1.0	--[c]	--
116-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.5	--[c]	--
116-D-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	--[c]	--
116-D-5_Staging pile area footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	6.6	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Antimony	7440-36-0	ug/kg	239	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.2	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.0	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.5	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Chrysene	218-01-9	ug/kg	12	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.4	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	8.8	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	149	6,000[a]	No
116-D-5_Staging pile area footprint	non-Rad	Methoxychlor	72-43-5	ug/kg	20	--[c]	--
116-D-5_Staging pile area footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,627	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Pyrene	129-00-0	ug/kg	6.2	--[b]	--
116-D-5_Staging pile area footprint	non-Rad	Silver	7440-22-4	ug/kg	228	519	No
116-D-6_Deep	non-Rad	Acetone	67-64-1	ug/kg	10	--[b]	--
116-D-6_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	--[c]	--
116-D-6_Deep	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
116-D-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.9	--[c]	--
116-D-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.15	--[c]	--
116-D-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.038	--[c]	--
116-D-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	217,059	--[c]	--
116-D-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	3,737	6,000[a]	No
116-D-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,873	--[c]	--
116-D-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	31	--[c]	--
116-D-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	23	--[c]	--
116-D-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	265	--[c]	--
116-D-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	37	--[c]	--
116-D-7_Deep	Rad	Europium-155	14391-16-3	pCi/g	1.7	--[c]	--
116-D-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	725	--[c]	--
116-D-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.049	--[c]	--
116-D-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.96	--[c]	--
116-D-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.6	421	No
116-D-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,126	6,000[a]	No
116-D-7_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.014	--[c]	--
116-D-7_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.050	--[c]	--
116-D-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.37	--[c]	--
116-D-7_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.047	--[c]	--
116-D-7_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.8	--[c]	--
116-D-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	7.3	--[b]	--
116-D-8_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	21	--[b]	--
116-D-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	385	--[b]	--
116-D-8_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	27	--[c]	--
116-D-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	31	--[b]	--
116-D-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--[b]	--
116-D-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	49	--[b]	--
116-D-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	200	--[b]	--
116-D-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	660	--[b]	--
116-D-8_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	56	--[b]	--
116-D-8_Shallow	non-Rad	Lead	7439-92-1	ug/kg	41,188	--[c]	--
116-D-8_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	23	--[c]	--
116-D-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
116-D-8_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	2,208	--[b]	--
116-D-8_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,943	--[b]	--
116-D-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	24	--[b]	--
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	11,473	--[b]	--
116-D-8_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,750	--[b]	--
116-D-8_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	2.7	--[c]	--
116-D-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.39	885	No
116-D-8_Shallow_Focused_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.6	--[c]	--
116-D-8_Shallow_Focused_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
116-D-8_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	35,000	--[c]	--
116-D-8_Shallow_Focused_2	non-Rad	Antimony	7440-36-0	ug/kg	490	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	96	--[c]	--
116-D-8_Shallow_Focused_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	180	--[c]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	29	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	27	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	53	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	92	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Chrysene	218-01-9	ug/kg	45	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-D-8_Shallow_Focused_2	non-Rad	Fluoranthene	206-44-0	ug/kg	52	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	6,000[a]	No
116-D-8_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,800	--[c]	--
116-D-8_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	29	--[c]	--
116-D-8_Shallow_Focused_2	non-Rad	Methylene chloride	75-09-2	ug/kg	2.4	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	5,000	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,300	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Pyrene	129-00-0	ug/kg	53	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Selenium	7782-49-2	ug/kg	1,200	605	Yes
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,000	--[b]	--
116-D-8_Shallow_Focused_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	46,000	--[b]	--
116-D-8_Shallow_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	7.6	--[c]	--
116-D-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.56	29,357	No
116-DR-1,2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	900	6,000[a]	No
116-DR-1,2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	75	--[c]	--
116-DR-1,2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	3.5	--[c]	--
116-DR-1,2_Deep	Rad	Europium-152	14683-23-9	pCi/g	126	--[c]	--
116-DR-1,2_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.1	--[c]	--
116-DR-1,2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	49	--[c]	--
116-DR-1,2_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.077	--[c]	--
116-DR-1,2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	5.3	--[c]	--
116-DR-1,2_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	29	1,012	No
116-DR-1,2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.049	--[c]	--
116-DR-1,2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.18	--[c]	--
116-DR-1,2_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.029	--[c]	--
116-DR-10_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.0	--[c]	--
116-DR-10_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	35	--[c]	--
116-DR-10_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.5	--[c]	--
116-DR-10_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	100	6,000[a]	No
116-DR-10_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	--[c]	--
116-DR-10_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.16	--[c]	--
116-DR-10_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.043	--[c]	--
116-DR-10_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	240	6,000[a]	No
116-DR-10_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	497	--[b]	--
116-DR-10_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.58	--[c]	--
116-DR-10_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.20	--[c]	--
116-DR-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	74	--[b]	--
116-DR-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[b]	--
116-DR-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	102	--[b]	--
116-DR-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	92	--[b]	--
116-DR-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--[b]	--
116-DR-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	258	6,000[a]	No
116-DR-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--[b]	--
116-DR-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	51	--[c]	--
116-DR-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	87	--[b]	--
116-DR-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	76,417	--[c]	--
116-DR-5_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.20	--[c]	--
116-DR-5_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.80	--[c]	--
116-DR-5_Overburden	Rad	Nickel-63	13981-37-8	pCi/g	29	--[c]	--
116-DR-5_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.11	--[c]	--
116-DR-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.19	979	No
116-DR-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.20	69	No
116-DR-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	146	--[b]	--
116-DR-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[b]	--
116-DR-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	178	--[b]	--
116-DR-5_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	67	--[b]	--
116-DR-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	25,436	--[c]	--
116-DR-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	169	--[b]	--
116-DR-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	250	--[b]	--
116-DR-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	554	6,000[a]	No
116-DR-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	38	--[b]	--
116-DR-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	48	--[c]	--
116-DR-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	540	--[b]	--
116-DR-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	237	--[b]	--
116-DR-5_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	--[c]	--
116-DR-5_Shallow	Rad	Europium-152	14683-23-9	pCi/g	2.5	--[c]	--
116-DR-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	30	--[c]	--
116-DR-5_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.12	--[c]	--
116-DR-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	979	No
116-DR-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.20	69	No
116-DR-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.42	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	56	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	70	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	71	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	62	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	26,100	134,226	No
116-DR-5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	94	--[b]	--
116-DR-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	361	6,000[a]	No
116-DR-5_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	--[c]	--
116-DR-5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
116-DR-5_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.53	--[c]	--
116-DR-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	7.1	--[c]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-DR-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.30	69	No
116-DR-5_Staging Pile Area	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	62	--[b]	--
116-DR-5_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	427	6,000[a]	No
116-DR-5_Staging Pile Area	non-Rad	Mercury	7439-97-6	ug/kg	24	--[c]	--
116-DR-5_Staging Pile Area	Rad	Tritium	10028-17-8	pCi/g	0.20	79	No
116-DR-6_Deep	Rad	Cesium-137	10045-97-3	pCi/g	6.5	--[c]	--
116-DR-6_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.31	--[c]	--
116-DR-6_Deep	Rad	Europium-152	14683-23-9	pCi/g	14	--[c]	--
116-DR-6_Deep	Rad	Europium-154	15585-10-1	pCi/g	1.4	--[c]	--
116-DR-6_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	--[c]	--
116-DR-6_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.77	--[c]	--
116-DR-6_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.1	9,786	No
116-DR-6_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.48	--[c]	--
116-DR-6_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.43	9,786	No
116-DR-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--[c]	--
116-DR-7_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.12	--[b]	--
116-DR-8_Overburden_2	non-Rad	Acetone	67-64-1	ug/kg	26	--[b]	--
116-DR-8_Overburden_2	non-Rad	Antimony	7440-36-0	ug/kg	535	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	77	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	46	--[b]	--
116-DR-8_Overburden_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	95	--[b]	--
116-DR-8_Overburden_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	347	--[b]	--
116-DR-8_Overburden_2	non-Rad	Chrysene	218-01-9	ug/kg	110	--[b]	--
116-DR-8_Overburden_2	non-Rad	Fluoranthene	206-44-0	ug/kg	180	--[b]	--
116-DR-8_Overburden_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	6,000[a]	No
116-DR-8_Overburden_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--[b]	--
116-DR-8_Overburden_2	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	--[b]	--
116-DR-8_Overburden_2	non-Rad	Pyrene	129-00-0	ug/kg	120	--[b]	--
116-DR-8_Overburden_2	Rad	Plutonium-238	13981-16-3	pCi/g	0.091	--[c]	--
116-DR-8_Overburden_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	979	No
116-DR-8_Overburden_3	non-Rad	Acetone	67-64-1	ug/kg	8.6	--[b]	--
116-DR-8_Overburden_3	non-Rad	Antimony	7440-36-0	ug/kg	747	--[b]	--
116-DR-8_Overburden_3	non-Rad	Beryllium	7440-41-7	ug/kg	1,958	--[b]	--
116-DR-8_Overburden_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	133	--[b]	--
116-DR-8_Overburden_3	non-Rad	Chrysene	218-01-9	ug/kg	30	--[b]	--
116-DR-8_Overburden_3	non-Rad	Lithium	7439-93-2	ug/kg	27,770	--[b]	--
116-DR-8_Overburden_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	--[b]	--
116-DR-8_Overburden_3	non-Rad	Pyrene	129-00-0	ug/kg	17	--[b]	--
116-DR-8_Overburden_3	non-Rad	Silver	7440-22-4	ug/kg	2,200	594	Yes
116-DR-8_Overburden_3	non-Rad	Zinc	7440-66-6	ug/kg	72,846	--[c]	--
116-DR-8_Overburden_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	960	No
116-DR-8_Shallow	non-Rad	1,2-Dichlorobenzene	95-50-1	ug/kg	26	--[b]	--
116-DR-8_Shallow	non-Rad	2,4,5-Trichlorophenol	95-95-4	ug/kg	10	--[b]	--
116-DR-8_Shallow	non-Rad	2,4-Dichlorophenol	120-83-2	ug/kg	11	--[b]	--
116-DR-8_Shallow	non-Rad	2-Chloronaphthalene	91-58-7	ug/kg	11	--[b]	--
116-DR-8_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	12	--[b]	--
116-DR-8_Shallow	non-Rad	Acetone	67-64-1	ug/kg	19	--[b]	--
116-DR-8_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	531	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	42	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	28	--[b]	--
116-DR-8_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--[b]	--
116-DR-8_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	210	--[b]	--
116-DR-8_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--[b]	--
116-DR-8_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	25	--[b]	--
116-DR-8_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	192	6,000[a]	No
116-DR-8_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	22	--[b]	--
116-DR-8_Shallow	non-Rad	Lithium	7439-93-2	ug/kg	70,444	--[b]	--
116-DR-8_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--[b]	--
116-DR-8_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	640	--[b]	--
116-DR-8_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	19	--[b]	--
116-DR-8_Shallow	non-Rad	Toluene	108-88-3	ug/kg	1.1	--[b]	--
116-DR-8_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.32	979	No
116-DR-9_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	75	--[c]	--
116-DR-9_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	123	--[c]	--
116-DR-9_Deep	non-Rad	Chromium	7440-47-3	ug/kg	20,225	--[c]	--
116-DR-9_Deep	Rad	Cesium-137	10045-97-3	pCi/g	11	--[c]	--
116-DR-9_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	1.7	--[c]	--
116-DR-9_Deep	Rad	Europium-152	14683-23-9	pCi/g	26	--[c]	--
116-DR-9_Deep	Rad	Europium-154	15585-10-1	pCi/g	3.5	--[c]	--
116-DR-9_Deep	Rad	Nickel-63	13981-37-8	pCi/g	54	--[c]	--
116-DR-9_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.33	--[c]	--
116-DR-9_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.7	154	No
116-DR-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,900	6,000[a]	No
116-DR-9_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	10	--[c]	--
116-DR-9_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.044	--[c]	--
116-DR-9_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.43	--[c]	--
116-DR-9_Shallow	Rad	Europium-154	15585-10-1	pCi/g	0.071	--[c]	--
116-DR-9_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	5.0	--[c]	--
116-DR-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.36	--[c]	--
116-DR-9_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.72	--[c]	--
116-DR-9_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.26	1,468	No
118-D-1_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	344	6,000[a]	No

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-D-1_Deep	non-Rad	Mercury	7439-97-6	ug/kg	18	--[c]	--
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	18,960	--[b]	--
118-D-1_Deep	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	59,000	--[b]	--
118-D-1_Deep	Rad	Tritium	10028-17-8	pCi/g	0.081	34	No
118-D-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	120	--[b]	--
118-D-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	245	--[b]	--
118-D-1_Overburden	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	110	--[b]	--
118-D-1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	397	6,000[a]	No
118-D-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	760	--[b]	--
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	870	--[b]	--
118-D-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,300	--[b]	--
118-D-1_Overburden	Rad	Tritium	10028-17-8	pCi/g	0.041	34	No
118-D-1_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	175	6,000[a]	No
118-D-1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	17	--[c]	--
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,471	--[b]	--
118-D-1_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	5,642	--[b]	--
118-D-1_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	1.1	1.8	No
118-D-1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.73	82	No
118-D-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	13	--[c]	--
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,382	--[b]	--
118-D-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	13,056	--[b]	--
118-D-1_Shallow_5	Rad	Tritium	10028-17-8	pCi/g	0.030	18	No
118-D-1_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	261	6,000[a]	No
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,700	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,000	--[b]	--
118-D-1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	5,090	--[b]	--
118-D-1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.050	294	No
118-D-1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.5	--[b]	--
118-D-1_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.7	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	68	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,800	--[b]	--
118-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,400	--[b]	--
118-D-1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	0.37	--[c]	--
118-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	1.3	18	No
118-D-4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	--[c]	--
118-D-4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	500	--[b]	--
118-D-4_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	2,400	--[b]	--
118-D-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	66	--[c]	--
118-D-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	582	--[b]	--
118-D-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.33	--[c]	--
118-D-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.0	--[c]	--
118-D-4_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.31	--[c]	--
118-D-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.8	577	No
118-D-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	900	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	48,100	--[c]	--
118-D-4_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[a]	No
118-D-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	58	--[c]	--
118-D-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	500	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	27,300	--[c]	--
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	5,460	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,500	--[b]	--
118-D-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	92,400	--[b]	--
118-D-4_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.45	--[c]	--
118-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	562	--[b]	--
118-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	218	6,000[a]	No
118-D-5_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	41	--[c]	--
118-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.20	979	No
118-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	442	--[b]	--
118-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	235	6,000[a]	No
118-D-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	950	--[b]	--
118-D-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	20	--[c]	--
118-D-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.25	979	No
118-D-5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	440	--[b]	--
118-D-5_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	1.1	--[c]	--
118-D-5_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	113	--[c]	--
118-D-5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	0.15	68	No
118-D-6:4_Deep	non-Rad	Antimony	7440-36-0	ug/kg	660	--[b]	--
118-D-6:4_Deep	non-Rad	Aroclor-1254	11097-69-1	ug/kg	4.9	--[c]	--
118-D-6:4_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	570	1,343	No
118-D-6:4_Deep	non-Rad	Chromium	7440-47-3	ug/kg	29,454	--[c]	--
118-D-6:4_Deep	non-Rad	Copper	7440-50-8	ug/kg	22,244	4.03E+06	No
118-D-6:4_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	841	6,000[a]	No
118-D-6:4_Deep	non-Rad	Mercury	7439-97-6	ug/kg	169	--[c]	--
118-D-6:4_Deep	Rad	Cesium-137	10045-97-3	pCi/g	29	--[c]	--
118-D-6:4_Deep	Rad	Europium-152	14683-23-9	pCi/g	1.6	--[c]	--
118-D-6:4_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	--[c]	--
118-D-6:4_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.99	29,357	No
118-D-6:4_Deep	Rad	Tritium	10028-17-8	pCi/g	0.026	2,057	No
118-D-6:4_Deep_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	73	--[c]	--
118-D-6:4_Deep_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	1,600	1,343	Yes
118-D-6:4_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	64,800	--[c]	--
118-D-6:4_Deep_Focused	non-Rad	Copper	7440-50-8	ug/kg	56,600	4.03E+06	No
118-D-6:4_Deep_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,640	6,000[a]	No

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-D-6:4_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	380	--[c]	--
118-D-6:4_Deep_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	94,800	--[b]	--
118-D-6:4_Deep_Focused	non-Rad	Zinc	7440-66-6	ug/kg	148,000	--[c]	--
118-D-6:4_Deep_Focused	Rad	Americium-241	14596-10-2	pCi/g	0.29	--[c]	--
118-D-6:4_Deep_Focused	Rad	Cesium-137	10045-97-3	pCi/g	85	--[c]	--
118-D-6:4_Deep_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.63	--[c]	--
118-D-6:4_Deep_Focused	Rad	Europium-152	14683-23-9	pCi/g	17	--[c]	--
118-D-6:4_Deep_Focused	Rad	Europium-154	15585-10-1	pCi/g	1.0	--[c]	--
118-D-6:4_Deep_Focused	Rad	Nickel-63	13981-37-8	pCi/g	37	--[c]	--
118-D-6:4_Deep_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	4.3	--[c]	--
118-D-6:4_Deep_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	29,357	No
118-D-6:4_Deep_Focused	Rad	Tritium	10028-17-8	pCi/g	0.056	2,057	No
118-D-6:4_Deep_Focused	Rad	Uranium-234	13966-29-5	pCi/g	1.2	--[b]	--
118-D-6:4_Deep_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.27	--[b]	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--[c]	--
118-D-6:4_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.9	--[c]	--
118-D-6:4_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	403	6,000[a]	No
118-D-6:4_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	13,267	--[c]	--
118-D-6:4_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	31	--[c]	--
118-D-6:4_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	630	18,173	No
118-D-6:4_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	0.034	2,057	No
118-D-6:4_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	21	--[c]	--
118-D-6:4_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	6.8	--[c]	--
118-D-6:4_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	559	6,000[a]	No
118-D-6:4_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	1,200	--[c]	--
118-D-6:4_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,344	--[b]	--
118-D-6:4_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	2.9	--[c]	--
118-D-6:4_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	1.4	--[c]	--
118-D-6:4_Shallow_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.21	--[c]	--
118-D-6:4_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	29,357	No
118-D-6:4_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	0.073	2,057	No
118-D-6:4_Shallow_2	Rad	Uranium-238	U-238	pCi/g	1.1	--[b]	--
118-DR-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	248	6,000[a]	No
118-DR-1_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.77	--[c]	--
118-DR-1_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	124	--[c]	--
118-DR-1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	1,500	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--[b]	--
118-DR-1_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	0.49	--[c]	--
118-DR-1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	9.7	--[c]	--
118-DR-2:2_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	512	--[c]	--
118-DR-2:2_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	6,000[a]	No
118-DR-2:2_Deep	non-Rad	Mercury	7439-97-6	ug/kg	50	--[c]	--
118-DR-2:2_Deep	Rad	Americium-241	14596-10-2	pCi/g	0.12	--[c]	--
118-DR-2:2_Deep	Rad	Carbon-14	14762-75-5	pCi/g	9.4	--[c]	--
118-DR-2:2_Deep	Rad	Cesium-137	10045-97-3	pCi/g	12	--[c]	--
118-DR-2:2_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	4.3	--[c]	--
118-DR-2:2_Deep	Rad	Europium-152	14683-23-9	pCi/g	5.8	--[c]	--
118-DR-2:2_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.94	--[c]	--
118-DR-2:2_Deep	Rad	Nickel-63	13981-37-8	pCi/g	47	--[c]	--
118-DR-2:2_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.2	--[c]	--
118-DR-2:2_Deep	Rad	Technetium-99	14133-76-7	pCi/g	1.1	3.3	No
118-DR-2:2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	34	--[c]	--
118-DR-2:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	699	6,000[a]	No
118-DR-2:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	164	--[c]	--
118-DR-2:2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.12	--[c]	--
118-DR-2:2_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.45	--[c]	--
118-DR-2:2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	4.8	--[c]	--
118-DR-2:2_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.18	--[c]	--
118-DR-2:2_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	2.4	4.1	No
118-DR-2:2_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.88	2,669	No
120-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	720	--[b]	--
120-D-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	6,000[a]	No
120-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	111	--[c]	--
120-D-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	605	--[b]	--
120-D-2_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	554	--[b]	--
120-D-2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	560	--[b]	--
122-DR-1:2_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--[b]	--
122-DR-1:2_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	150	--[b]	--
122-DR-1:2_Deep	non-Rad	Chrysene	218-01-9	ug/kg	22	--[b]	--
122-DR-1:2_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	49	--[b]	--
122-DR-1:2_Deep	non-Rad	Pyrene	129-00-0	ug/kg	51	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	66	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	30	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	36	--[b]	--
122-DR-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--[b]	--
122-DR-1:2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
122-DR-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	55	--[b]	--
122-DR-1:2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	19	--[b]	--
122-DR-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	110	--[b]	--
122-DR-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	100	--[b]	--
126-D-2_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.2	--[b]	--
126-D-2_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.86	--[c]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
126-D-2_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	833	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	8.8	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.4	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	10	--[b]	--
126-D-2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.0	--[b]	--
126-D-2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	16	--[b]	--
126-D-2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	16	--[b]	--
126-D-2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	27	--[b]	--
126-D-2_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	7.2	--[b]	--
126-D-2_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	95	--[c]	--
126-D-2_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.57	--[c]	--
126-D-2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	13	--[b]	--
126-D-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	577	--[b]	--
126-D-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.3	--[c]	--
126-D-2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	14	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	23	--[b]	--
126-D-2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--[b]	--
126-D-2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	188	--[b]	--
126-D-2_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	0.45	--[c]	--
126-D-2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	38	--[b]	--
126-D-2_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--[b]	--
126-D-2_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	0.42	17	No
126-D-2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	58	--[b]	--
126-D-2_Shallow	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	7.8	--[c]	--
126-D-2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	6.0	--[b]	--
126-D-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	17	--[c]	--
126-D-2_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	14	--[b]	--
126-D-2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	37	--[b]	--
126-D-2_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	92	--[b]	--
126-D-2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	--[b]	--
126-D-2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	75	--[c]	--
126-D-2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	240	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	9.2	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	620	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	8.0	--[c]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	35	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	35	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,280	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	7,900	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Chlordane	57-74-9	ug/kg	0.31	--[c]	--
126-D-2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	23	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Endosulfan II	33213-65-9	ug/kg	0.39	0.57	No
126-D-2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	221	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	63	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Heptachlor epoxide	1024-57-3	ug/kg	5.8	--[c]	--
126-D-2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	72,000	--[c]	--
126-D-2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	23	--[c]	--
126-D-2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	0.86	--[c]	--
126-D-2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	105	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	64	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	69,000	--[b]	--
126-D-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	160,000	--[b]	--
128-D-2_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.51	--[b]	--
128-D-2_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	9.2	--[b]	--
128-D-2_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	36	--[c]	--
128-D-2_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	77	--[b]	--
128-D-2_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	32	--[b]	--
128-D-2_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	81	--[b]	--
128-D-2_Shallow_1	non-Rad	Chloroform	67-66-3	ug/kg	0.87	--[b]	--
128-D-2_Shallow_1	non-Rad	Diethylphthalate	84-66-2	ug/kg	400	--[b]	--
128-D-2_Shallow_1	non-Rad	Ethylbenzene	100-41-4	ug/kg	0.64	--[b]	--
128-D-2_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	41	--[c]	--
128-D-2_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.1	--[b]	--
128-D-2_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,100	92	Yes
128-D-2_Shallow_1	non-Rad	Toluene	108-88-3	ug/kg	1.4	--[b]	--
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,691	--[b]	--
128-D-2_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	16,599	--[b]	--
128-D-2_Shallow_1	non-Rad	Xylenes (total)	1330-20-7	ug/kg	2.7	--[b]	--
128-D-2_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	10	--[b]	--
128-D-2_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	154	6,000[a]	No
128-D-2_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	18	--[c]	--
128-D-2_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[b]	--
128-D-2_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	190	303	No
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,500	--[b]	--
128-D-2_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	3,300	--[b]	--
128-D-2_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.24	489	No
130-D-1_Shallow	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	0.88	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
130-D-1_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--[b]	--
130-D-1_Shallow	non-Rad	Acetone	67-64-1	ug/kg	13	--[b]	--
130-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	24	--[c]	--
130-D-1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	16	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	69	--[b]	--
130-D-1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	25	--[b]	--
130-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	51	--[b]	--
130-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	43	--[b]	--
130-D-1_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	63	--[b]	--
130-D-1_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	1.9	--[b]	--
130-D-1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	56	--[b]	--
130-D-1_Shallow	non-Rad	Toluene	108-88-3	ug/kg	2.7	--[b]	--
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,333	--[b]	--
130-D-1_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	9,898	--[b]	--
130-D-1_Shallow_Focused	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.9	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	3.2	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	64,000	--[b]	--
130-D-1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	110,000	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	1,1-Dichloroethene	75-35-4	ug/kg	2.0	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--[c]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	1,900	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	29	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	45	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Methylene chloride	75-09-2	ug/kg	1.8	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,162	--[b]	--
130-D-1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	18,492	--[b]	--
132-D-1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	6.3	--[c]	--
132-D-1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	230	--[c]	--
132-D-1_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.0	--[b]	--
132-D-1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--[b]	--
132-D-1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.9	--[b]	--
132-D-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	164	6,000[a]	No
132-D-1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	1,000	--[c]	--
132-D-1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	580	--[e]	--
132-D-1_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	860	669	Yes
132-D-1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--[c]	--
132-D-1_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.84	69	No
132-D-1_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	39	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1248	12672-29-6	ug/kg	35	--[c]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	--[c]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	18	--[c]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	225	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	174	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	161	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	59	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	82	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	193	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	54	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Diethylphthalate	84-66-2	ug/kg	44	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	402	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	68	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	185	6,000[a]	No
132-D-1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[b]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	680	--[c]	--
132-D-1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	439	--[b]	--
132-D-1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	0.065	48	No
1607-D1_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	90	--[b]	--
1607-D1_Shallow_1	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,367	--[b]	--
1607-D1_Shallow_1	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,650	--[b]	--
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	940	--[b]	--
1607-D1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,444	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	18	--[c]	--
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,500	--[b]	--
1607-D1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,600	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	2.9	--[c]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	660	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	15	--[c]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	4,900	--[b]	--
1607-D1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,226	--[b]	--
1607-D2-1_Shallow	Rad	Americium-241	14596-10-2	pCi/g	0.050	--[c]	--
1607-D2-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	--[c]	--
1607-D2-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.38	--[c]	--
1607-D2-2_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	1,211	--[b]	--
1607-D2-2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	447	--[c]	--
1607-D2-2_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	157	--[c]	--
1607-D2-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	249,126	--[b]	--
1607-D2-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,771	--[c]	--
1607-D2-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	25,777	1.03E+06	No

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
1607-D2-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	300	6,000[a]	No
1607-D2-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	484	--[c]	--
1607-D2-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	643	--[b]	--
1607-D2-2_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	204,415	--[b]	--
1607-D2-2_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	55,960	--[b]	--
1607-D2-2_Shallow	non-Rad	Silver	7440-22-4	ug/kg	11,800	18,173	No
1607-D2-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	91,971	--[c]	--
1607-D2-3_Overburden	Rad	Cobalt-60	10198-40-0	pCi/g	0.075	--[c]	--
1607-D2-3_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.60	--[c]	--
1607-D2-3_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	25	--[b]	--
1607-D2-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	31	--[c]	--
1607-D2-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.22	--[c]	--
1607-D2-4_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.037	--[c]	--
1607-D4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	100	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	60	--[b]	--
1607-D4_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	715	--[b]	--
1607-D5_Shallow	non-Rad	2,4-Dinitrophenol	51-28-5	ug/kg	370	--[b]	--
1607-D5_Shallow	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	34	--[b]	--
1607-D5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	29	--[b]	--
1607-D5_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	4.0	--[c]	--
1607-D5_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	0.80	--[c]	--
1607-D5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.20E+07	--[c]	--
1607-D5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	163	--[b]	--
1607-D5_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	12	--[c]	--
1607-D5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	775,391	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,962	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	405	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	449	--[b]	--
1607-D5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	253	--[b]	--
1607-D5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	69,503	--[b]	--
1607-D5_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	48	--[b]	--
1607-D5_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.2	--[c]	--
1607-D5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	779	--[b]	--
1607-D5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	31,565	3.30E+06	No
1607-D5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	99	--[b]	--
1607-D5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,925	--[b]	--
1607-D5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	125	--[b]	--
1607-D5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	160	--[b]	--
1607-D5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	106,537	--[c]	--
1607-D5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	25	--[c]	--
1607-D5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	1,201	--[b]	--
1607-D5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	3,855	--[b]	--
1607-D5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,528	--[b]	--
1607-D5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	2,647	--[b]	--
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	21,904	--[b]	--
1607-D5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	37,994	--[b]	--
600-30_Shallow_1	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	408	--[b]	--
600-30_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	230	6,000[a]	No
600-30_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	6,410	--[b]	--
600-30_Shallow_2	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	101	--[b]	--
600-30_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	294	6,000[a]	No
600-30_Shallow_2	non-Rad	Silver	7440-22-4	ug/kg	170	363	No
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	820	--[b]	--
600-30_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	1,275	--[b]	--
600-30_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	430	--[b]	--
600-30_Shallow_3	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	87	--[b]	--
600-30_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	210	6,000[a]	No
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,643	--[b]	--
600-30_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,600	--[b]	--
600-30_Shallow_Focused	non-Rad	Aldrin	309-00-2	ug/kg	1.7	--[c]	--
600-30_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	349	--[b]	--
600-30_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	270	6,000[a]	No
600-30_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,800	--[c]	--
600-30_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	52,500	--[b]	--
628-3_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--[b]	--
628-3_Shallow	non-Rad	Aldrin	309-00-2	ug/kg	1.5	--[c]	--
628-3_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	3,150	--[b]	--
628-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.0	--[b]	--
628-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.7	--[b]	--
628-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.3	--[b]	--
628-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.1	--[b]	--
628-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	8.5	--[b]	--
628-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	31	--[b]	--
628-3_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.6	--[b]	--
628-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,972	--[c]	--
628-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	165	--[c]	--
628-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	3.6	--[b]	--
628-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,961	--[b]	--
628-3_Staging Pile Area_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.4	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.4	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Anthracene	120-12-7	ug/kg	8.6	--[b]	--

Table 7-5. Comparison of EPCs from 100-D Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
628-3_Staging Pile Area_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	13	--[c]	--
628-3_Staging Pile Area_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.1	--[c]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	6.9	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.3	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Chrysene	218-01-9	ug/kg	6.7	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.0	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Fluoranthene	206-44-0	ug/kg	35	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Mercury	7439-97-6	ug/kg	113	--[c]	--
628-3_Staging Pile Area_2	non-Rad	Pyrene	129-00-0	ug/kg	11	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,200	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	2,900	--[b]	--
628-3_Staging Pile Area_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	10,486	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.3	--[c]	--
628-3_Staging Pile Area_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[c]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.8	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.6	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.4	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Chromium	7440-47-3	ug/kg	41,154	--[c]	--
628-3_Staging Pile Area_3	non-Rad	Chrysene	218-01-9	ug/kg	1.9	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Fluoranthene	206-44-0	ug/kg	85	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Lead	7439-92-1	ug/kg	13,526	--[c]	--
628-3_Staging Pile Area_3	non-Rad	Mercury	7439-97-6	ug/kg	30	--[c]	--
628-3_Staging Pile Area_3	non-Rad	Molybdenum	7439-98-7	ug/kg	474	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Pyrene	129-00-0	ug/kg	3.0	--[b]	--
628-3_Staging Pile Area_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,203	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.5	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.4	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.8	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.3	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Chrysene	218-01-9	ug/kg	3.4	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	26	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	2.9	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Pyrene	129-00-0	ug/kg	4.5	--[b]	--
628-3_Staging Pile Area_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	20,300	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	485	--[b]	--
UPR-100-D-5_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	4.3	--[c]	--
UPR-100-D-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	6,000[a]	No
UPR-100-D-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	190	1,150	No
UPR-100-D-5_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.53	1,858	No
UPR-100-D-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	370	--[b]	--
UPR-100-D-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[a]	No
UPR-100-D-5_Shallow	non-Rad	Silver	7440-22-4	ug/kg	170	1,150	No

Notes:

a. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

b. A soil screening level is not calculated because a surface water cleanup level or surface water standard is not available for the analyte.

c. The calculated soil screening level for the analyte is considered non-representative because breakthrough was not simulated to occur within 1000 years in more than one of the set of representative stratigraphic columns, where breakthrough is defined as a mass concentration exceeding 0.0001 µg/L for nonradionuclides or an activity concentration exceeding 0.0001 pCi/L for radionuclides.

-- = Not applicable or no value.

Table 7-6. Evaluation of 100-D Waste Sites with EPCs Greater than Soil Screening Levels

Waste Site	COPC	Is EPC > SSL Protective of Groundwater?	Is EPC > SSL Protective of Surface Water?
100-D-13_Shallow_Focused	2-(2-methyl-4-chlorophenoxy) propionic acid	Yes [a]	No
100-D-13_Shallow_Focused	Selenium	No	Yes [b]
100-D-15_Shallow_2	Cadmium	Yes [c]	Yes [c]
100-D-61_Shallow	Selenium	No	Yes [d]
100-D-7_Shallow_1	Alpha-BHC	Yes [e]	No
100-D-7_Shallow_1	Methylene chloride	Yes [f]	No
100-D-7_Shallow_1	Selenium	No	Yes [g]
100-D-7_Shallow_2	Alpha-BHC	Yes [h]	No
100-D-7_Shallow_2	Silver	No	Yes [i]
100-D-7_Shallow_Focused	Alpha-BHC	Yes [j]	No
100-D-7_Shallow_Focused	Methylene chloride	Yes [k]	No
100-D-7_Staging pile area footprint	Silver	No	Yes [l]
116-D-5_Shallow	Nitrite	Yes [m]	No
116-D-5_Shallow	Silver	No	Yes [n]
116-D-8_Shallow	Methylene chloride	Yes [o]	No
116-D-8_Shallow_Focused_2	Selenium	No	Yes [p]
116_DR_8_Overburden_3	Silver	No	Yes [q]
118-D-6:4_Deep_Focused	Cadmium	No	Yes [r]
128-D-2_Shallow_1	Chloroform	Yes [s]	No
128-D-2_Shallow_1	Methylene chloride	Yes [t]	No
128-D-2_Shallow_1	Selenium	Yes [u]	Yes [u]
128-D-2_Shallow_2	Methylene chloride	Yes [v]	No
132-D-1_Shallow	Selenium	No	Yes [w]

a. Exceeded groundwater protection (GWP) SSL and PRG, but eliminated through further evaluation. The calculated EPC for 2-(2-methyl-4-chlorophenoxy) propionic acid (MCPP) is based on defaulting to the maximum detection in the previous verification sampling. The single measured concentration of MCPP was 2,000 µg/kg and flagged with a "J" qualifier indicating it is an estimated concentration; this detection is less than the EQL.

b. Exceeded surface water protection (SWP) SSL, but eliminated through further evaluation. The calculated EPC for selenium (890 µg/kg) is based on defaulting to the maximum detection from a set of six soil samples. The SSL for selenium (359 µg/kg) and the EPC are less than the EQL of 1,000 µg/kg. As such, this concentration represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the DWS.

c. Exceeded GWP and SWP SSL, but eliminated through further evaluation. The calculated EPC for cadmium (965 µg/kg) is based on the 95% Chebyshev from a set of 12 soil samples. Cadmium concentrations within this decision unit range between 75 and 1,190 µg/kg which are within the range of naturally occurring levels (563 to 2,980 µg/kg) measured at the Hanford Site.

d. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for selenium (1,040 µg/kg) is based on the 95% Kaplan Meier UCL from a set of 12 soil samples; however there were only two measured selenium results. Both measured selenium results were flagged with a "C" laboratory qualifier indicating that selenium was detected in both the sample and the associated QC blank, and the sample concentration was less than or equal to five times the blank concentration.

e. Exceeded GWP SSL and PRG, but eliminated through further evaluation. The calculated EPC for alpha-BHC is based on defaulting to the maximum detection (5 µg/kg) from a set of 12 samples. Alpha-BHC was detected in 11 of 12 samples collected from this decision unit; all of which were flagged with a "B" laboratory qualifier indicating that alpha-BHC was detected in the sample and the associated QC blank, and the sample concentration was less than or equal to five times the blank concentration.

f. Exceeded GWP SSL and PRG, but eliminated through further evaluation. The calculated EPC for methylene chloride is based on defaulting to the maximum detection (10 µg/kg) from a set of 12 samples. Methylene chloride was detected in all 12 samples collected from this decision unit; all of which were flagged with a "B" laboratory qualifier indicating that methylene chloride was detected in the samples and the associated QC blank, and the sample concentrations were less than or equal to five times the blank concentration.

g. Exceeded SWP SSL but eliminated through further evaluation; The EPC for selenium is based on the 95% Kaplan Meier UCL from a set of 12 samples. Selenium was detected in two of the 12 samples with concentrations ranging between 820 and 870 µg/kg. Both measured selenium concentrations are within the range of naturally occurring levels (780 to 840 µg/kg) measured at the Hanford Site.

h. Exceeded GWP SSL, but eliminated through further evaluation: The calculated EPC for alpha-BHC is based on defaulting to the maximum detection (0.22 µg/kg) from a set of 12 samples. Alpha-BHC was detected in one of 12 samples collected from this decision unit; the single detection was flagged with a "B" laboratory qualifier indicating that alpha-BHC was detected in the sample and the associated QC blank, and the sample concentration was less than or equal to five times the blank concentration.

i. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for silver (410 µg/kg) is based on defaulting to the maximum detection from a set of 12 soil samples; only one detection was reported. The SSL for silver (187 µg/kg) is less than the EQL of 200 µg/kg. As such, this concentration represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the action level.

j. Exceeded GWP SSL and PRG, but eliminated through further evaluation: The calculated EPC for alpha-BHC is based on defaulting to the maximum detection (5 µg/kg) from a set of three samples. Alpha-BHC was detected in all three samples collected from this decision unit; all of which were flagged with a "B" laboratory qualifier indicating that alpha-BHC was detected in the samples and the associated QC blank, and the sample concentrations were less than or equal to five times the blank concentration.

k. Exceeded GWP SSL and PRG, but eliminated through further evaluation: The calculated EPC for methylene chloride is based on defaulting to the maximum detection (10 µg/kg) from a set of three samples. Methylene chloride was detected in all three samples collected from this decision unit; all of which were flagged with a "B" laboratory qualifier indicating that methylene chloride was detected in the samples and the associated QC blank, and the sample concentrations were less than or equal to five times the blank concentration.

l. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for silver (710 µg/kg) is based on defaulting to the maximum detection from a set of 12 soil samples; only one detection was reported. The SSL for silver (187 µg/kg) is less than the EQL of 200 µg/kg. As such, this concentration represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the action level.

m. Exceeded GWP SSL and PRG, but eliminated through further evaluation. The calculated EPC for nitrite (91,100 µg/kg) is based on defaulting to the maximum detection from a set of 12 soil samples. Nitrite was detected in one of 12 samples; all nondetected concentrations were less than the GWP SSL. Nitrogen in nitrate and nitrite was analyzed in the associated deep zone decision unit at concentrations less than the SSL. These results suggest that the single detection represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the DWS.

Table 7-6. Evaluation of 100-D Waste Sites with EPCs Greater than Soil Screening Levels

n. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for silver (1,300 µg/kg) is based on defaulting to the maximum detection from a set of 12 soil samples. Silver was detected in one of 12 samples, with all nondetected concentrations less than the SWP SSL. As such, this concentration represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the action level.
o. Exceeded GWP SSL, but eliminated through further evaluation. The calculated EPC for methylene chloride is based on defaulting to the maximum detection (10 µg/kg) from a set of 12 samples. Methylene chloride was detected in 11 of 12 samples collected from this decision unit; all of which were flagged with a "B" laboratory qualifier indicating that methylene chloride was detected in the samples and the associated QC blank, and the sample concentrations were less than or equal to five times the blank concentration.
p. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for selenium (1,200 µg/kg) is based on defaulting to the maximum detection from a set of five soil samples. The SSL for selenium (605 µg/kg) is less than the EQL of 1,000 µg/kg. Selenium was detected in one of five samples. As such, this single detection represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the DWS.
q. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for silver (2,200 µg/kg) is based on defaulting to the maximum detection from a set of 11 soil samples. Silver was detected in one of 11 samples. As such, this single detection represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the action level.
r. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for cadmium (1,600 µg/kg) is based defaulting to the maximum detection from a set of three samples. Cadmium concentrations within this decision unit range between 860 and 1,600 µg/kg which are within the range of naturally occurring levels (563 to 2,980 µg/kg) measured at the Hanford Site.
s. Exceeded the GWP SSL, but eliminated through further evaluation. The calculated EPC for chloroform is based on defaulting to the maximum detection (0.87 µg/kg) from a set of 12 samples. The GWP SSL (0.59 µg/kg) for chloroform is less than the EQL of 5 µg/kg. The single measured detection of chloroform of 0.87 µg/kg was flagged with a "J" qualifier indicating it is an estimated concentration; this detection is also less than the EQL.
t. Exceeded GWP SSL and PRG, but eliminated through further evaluation. The calculated EPC for methylene chloride is based on 95%UCL (2.1 µg/kg) from a set of 12 samples. Methylene chloride was detected in all 12 samples collected from this decision unit; all but one were flagged with a "B" laboratory qualifier indicating that methylene chloride was detected in the samples and the associated QC blank, and the sample concentrations were less than or equal to five times the blank concentration.
u. Exceeded GWP and SWP SSL, but eliminated through further evaluation. The calculated EPC for selenium (1,100 µg/kg) is based on defaulting to the maximum detection from a set of 12 soil samples. Both SSLs for selenium are less than the EQL of 1,000 µg/kg. Selenium was detected in one of 12 samples. As such, this single detection is approximately equal to the EQL and represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the DWS.
v. Exceeded GWP SSL and PRG, but eliminated through further evaluation. The calculated EPC for methylene chloride is based on defaulting to the maximum detection (10 µg/kg) from a set of 12 samples. Methylene chloride was detected in all 12 samples collected from this decision unit; all results were flagged with a "B" laboratory qualifier indicating that methylene chloride was detected in the samples and the associated QC blank, and the sample concentrations were less than or equal to five times the blank concentration.
w. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for selenium (860 µg/kg) is based on defaulting to the maximum detection from a set of 12 soil samples. The SSL for selenium (340 µg/kg) is less than the EQL of 1,000 µg/kg. Selenium was detected in one of 12 samples with the single detection at a concentration less than the EQL. As such, this single detection represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the DWS.

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-17_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,395	248	Yes
100-H-17_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,015	--[a]	--
100-H-17_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	471	6,000[b]	No
100-H-17_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,489	--[a]	--
100-H-17_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,853	--[c]	--
100-H-17_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.26	--[a]	--
100-H-17_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.50	1,989	No
100-H-17_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	--[c]	--
100-H-17_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	--[c]	--
100-H-21_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	6,550	19,524	No
100-H-21_Deep	non-Rad	Chromium	7440-47-3	ug/kg	13,599	--[a]	--
100-H-21_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,472	6,000[b]	No
100-H-21_Deep	non-Rad	Lead	7439-92-1	ug/kg	17,593	--[a]	--
100-H-21_Deep	non-Rad	Mercury	7439-97-6	ug/kg	64	2.83E+06	No
100-H-21_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,644	--[c]	--
100-H-21_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.4	--[a]	--
100-H-21_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.28	--[a]	--
100-H-21_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.2	--[a]	--
100-H-21_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.41	--[a]	--
100-H-21_Deep	Rad	Nickel-63	13981-37-8	pCi/g	10	1.70E+06	No
100-H-21_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.076	--[a]	--
100-H-21_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	156,531	No
100-H-21_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[c]	--
100-H-21_Deep	Rad	Uranium-238	U-238	pCi/g	0.55	--[c]	--
100-H-21_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	11,453	19,524	No
100-H-21_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	14,234	--[a]	--
100-H-21_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	813	6,000[b]	No
100-H-21_Overburden	non-Rad	Lead	7439-92-1	ug/kg	36,426	--[a]	--
100-H-21_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	2.83E+06	No
100-H-21_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,342	--[c]	--
100-H-21_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
100-H-21_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[a]	--
100-H-21_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	--[a]	--
100-H-21_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[c]	--
100-H-21_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.051	--[c]	--
100-H-21_Overburden	Rad	Uranium-238	U-238	pCi/g	0.45	--[c]	--
100-H-21_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	13,301	19,524	No
100-H-21_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	14,826	--[a]	--
100-H-21_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	487	6,000[b]	No
100-H-21_Shallow	non-Rad	Lead	7439-92-1	ug/kg	40,132	--[a]	--
100-H-21_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,473	--[c]	--
100-H-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.24	--[a]	--
100-H-21_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[a]	--
100-H-21_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	--[a]	--
100-H-21_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.075	--[a]	--
100-H-21_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	0.63	501	No
100-H-21_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[c]	--
100-H-21_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[c]	--
100-H-24_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	69	--[a]	--
100-H-24_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,164	226	Yes
100-H-28:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	22	2.09E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.21E+07	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	19,524	No
100-H-28:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	540,000	3.89E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.2	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	58	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	530	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	66,400	8.59E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,000	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	4.3	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,000	4.47E+06	No
100-H-28:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	22,700	1.36E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.2	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	7.2	3.89E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	6.9	2.18E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	3.89E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,700	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	3.89E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	30	2.83E+06	No
100-H-28:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	1.51E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	23	1.74E+06	No
100-H-28:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	17,200	2.89E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	8.3	3.89E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,200	3.89E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.85E+06	--[a]	--
100-H-28:6_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	200	5.59E+06	No
100-H-28:6_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,300	19,524	No
100-H-28:6_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	75,800	3.89E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	250	--[a]	--
100-H-28:6_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,300	8.59E+07	No
100-H-28:6_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	296,335	No
100-H-28:6_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,800	--[a]	--
100-H-28:6_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	4.47E+06	No
100-H-28:6_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	1.36E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	3.89E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	31,400	--[a]	--
100-H-28:6_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	287,000	3.89E+08	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-28:6_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	10	2.83E+06	No
100-H-28:6_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	430	1.51E+07	No
100-H-28:6_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,400	2.89E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,200	--[a]	--
100-H-28:6_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,300	3.89E+08	No
100-H-3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	9.60E+06	--[a]	--
100-H-3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.0	1.85E+06	No
100-H-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13	--[a]	--
100-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	14,689	19,524	No
100-H-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	87,047	3.89E+08	No
100-H-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	70	--[a]	--
100-H-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	71	--[a]	--
100-H-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	61	--[a]	--
100-H-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	63	--[a]	--
100-H-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	342	--[a]	--
100-H-3_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.5	939	No
100-H-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,684	8.59E+07	No
100-H-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	242	296,335	No
100-H-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	17,525	--[a]	--
100-H-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	85	--[a]	--
100-H-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,489	4.47E+06	No
100-H-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,046	1.36E+08	No
100-H-3_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	4.9	1,466	No
100-H-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	138	3.89E+08	No
100-H-3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.89E+08	No
100-H-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	47,557	--[a]	--
100-H-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,799	3.89E+08	No
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	257	2.83E+06	No
100-H-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	453	1.51E+07	No
100-H-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	14,736	2.89E+08	No
100-H-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	143	3.89E+08	No
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	164,000	2.00E+06[d]	No
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,682	2.00E+06[d]	No
100-H-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,985	--[a]	--
100-H-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,349	3.89E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	--[a]	--
100-H-35_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	5,000	19,524	No
100-H-35_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	99,000	3.89E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	371	--[a]	--
100-H-35_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	2,630	8.59E+07	No
100-H-35_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	172	296,335	No
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	20,700	--[a]	--
100-H-35_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,590	4.47E+06	No
100-H-35_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	15,100	1.36E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.02E+07	3.89E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	5,880	--[a]	--
100-H-35_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	322,000	3.89E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	328	1.51E+07	No
100-H-35_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	17,100	2.89E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,600	--[a]	--
100-H-35_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	47,400	3.89E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	9.82E+06	--[a]	--
100-H-35_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,720	19,524	No
100-H-35_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	86,300	3.89E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	330	--[a]	--
100-H-35_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	1,930	8.59E+07	No
100-H-35_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	114	296,335	No
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	20,900	--[a]	--
100-H-35_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	4.47E+06	No
100-H-35_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15,300	1.36E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.89E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,500	--[a]	--
100-H-35_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	309,000	3.89E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	102	2.83E+06	No
100-H-35_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	428	1.51E+07	No
100-H-35_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	18,600	2.89E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	1,280	--[e]	--
100-H-35_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	41,600	--[a]	--
100-H-35_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	48,000	3.89E+08	No
100-H-35_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.76	--[f]	--
100-H-35_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	0.058	--[f]	--
100-H-35_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.61	--[f]	--
100-H-35_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.20E+06	--[a]	--
100-H-35_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	18,500	19,524	No
100-H-35_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	62,600	3.89E+08	No
100-H-35_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	200	--[a]	--
100-H-35_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	1,100	8.59E+07	No
100-H-35_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	154	296,335	No
100-H-35_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	14,800	--[a]	--
100-H-35_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	4.47E+06	No
100-H-35_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	13,400	1.36E+08	No
100-H-35_Shallow_Focused_3	non-Rad	Iron	7439-89-6	ug/kg	1.60E+07	3.89E+08	No
100-H-35_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	25,200	--[a]	--
100-H-35_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	253,000	3.89E+08	No
100-H-35_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	323	1.51E+07	No
100-H-35_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	13,700	2.89E+08	No
100-H-35_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	43,500	--[a]	--
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	94,200	3.89E+08	No
100-H-37_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.60E+06	--[a]	--
100-H-37_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	13,000	208	Yes
100-H-37_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	71,000	4.14E+06	No
100-H-37_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	970	--[a]	--
100-H-37_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	82	3,153	No
100-H-37_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-37_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	47,604	No
100-H-37_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,000	1.45E+06	No
100-H-37_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	4.14E+06	Yes
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	54,000	--[a]	--
100-H-37_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	4.14E+06	No
100-H-37_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	19	30,109	No
100-H-37_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,200	160,905	No
100-H-37_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	3.08E+06	No
100-H-37_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,423	--[c]	--
100-H-37_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	43,000	--[a]	--
100-H-37_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,000	4.14E+06	No
100-H-37_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.017	--[a]	--
100-H-37_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.14	--[c]	--
100-H-37_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2	--[c]	--
100-H-4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.0	74,353	No
100-H-4_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--[a]	--
100-H-4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	11	750,797	No
100-H-4_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	3.0	12,006	No
100-H-4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.91E+06	--[a]	--
100-H-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	28	66,400	No
100-H-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13	--[a]	--
100-H-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,985	702	Yes
100-H-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56,371	1.40E+07	No
100-H-4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.1	--[a]	--
100-H-4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.3	--[a]	--
100-H-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--[a]	--
100-H-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--[a]	--
100-H-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	251	--[a]	--
100-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,026	3.09E+06	No
100-H-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	125	10,660	No
100-H-4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.4	12,006	No
100-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,057	--[a]	--
100-H-4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.8	--[a]	--
100-H-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,639	160,962	No
100-H-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,398	4.91E+06	No
100-H-4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.7	1.40E+07	No
100-H-4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.0	784,233	No
100-H-4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[a]	--
100-H-4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	1.40E+07	Yes
100-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	27,406	--[a]	--
100-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	263,324	1.40E+07	No
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	408	101,807	No
100-H-4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	5.7	115	No
100-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	466	544,067	No
100-H-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,166	1.04E+07	No
100-H-4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.8	1.40E+07	No
100-H-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	391	79,784	No
100-H-4_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boilng)	TPH/OILH	ug/kg	30,792	2.00E+06[d]	No
100-H-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,620	--[c]	--
100-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	--[a]	--
100-H-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	36,149	1.40E+07	No
100-H-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.7	61,007	No
100-H-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[c]	--
100-H-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.88	--[c]	--
100-H-4_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.1	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	51	750,797	No
100-H-4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.02E+06	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	420	201,203	No
100-H-4_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	14	66,400	No
100-H-4_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	73	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,800	702	Yes
100-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	163,000	1.40E+07	No
100-H-4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	53	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	33	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	310	--[a]	--
100-H-4_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.4	34	No
100-H-4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	27	4.67E+06	No
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	19,400	3.09E+06	No
100-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	260	10,660	No
100-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	17,500	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	41	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,900	160,962	No
100-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,300	4.91E+06	No
100-H-4_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	17	813,653	No
100-H-4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	49	1.40E+07	No
100-H-4_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	4.2	784,233	No
100-H-4_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	20	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.24E+07	1.40E+07	Yes
100-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	27,400	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	364,000	1.40E+07	No
100-H-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	20	101,807	No
100-H-4_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.9	8.67E+06	No
100-H-4_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	14	115	No
100-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	730	544,067	No
100-H-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,200	1.04E+07	No
100-H-4_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	46	1.40E+07	No
100-H-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	410	79,784	No
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	2.00E+06[d]	No
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	188,000	2.00E+06[d]	No
100-H-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	10,100	--[c]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51,500	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	62,500	1.40E+07	No
100-H-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.5	--[c]	--
100-H-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.3	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.96E+06	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	2,160	32,224	No
100-H-40_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,830	112	Yes
100-H-40_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	68,600	2.24E+06	No
100-H-40_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	19	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	29	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	133	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.8	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	225	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,840	494,812	No
100-H-40_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	469	1,707	No
100-H-40_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	44	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,590	25,779	No
100-H-40_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,700	786,220	No
100-H-40_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.1	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	13	2.24E+06	No
100-H-40_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	854	125,600	No
100-H-40_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.95E+07	2.24E+06	Yes
100-H-40_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,400	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325,000	2.24E+06	No
100-H-40_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	80	16,305	No
100-H-40_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	961	87,136	No
100-H-40_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,400	1.67E+06	No
100-H-40_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	24	2.24E+06	No
100-H-40_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	170,000	2.00E+06[d]	No
100-H-40_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,300	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,400	2.24E+06	No
100-H-41_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	501	712,673	No
100-H-41_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	344	2.09E+07	No
100-H-41_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.83E+06	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	341	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,020	19,524	No
100-H-41_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	86,200	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,110	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	971	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,270	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	396	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	298	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,110	8.59E+07	No
100-H-41_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	296,335	No
100-H-41_Shallow_Focused	non-Rad	Carbazole	86-74-8	ug/kg	3,740	132,367	No
100-H-41_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,500	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	854	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,070	4.47E+06	No
100-H-41_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	1.36E+08	No
100-H-41_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	123	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Dibenzofuran	132-64-9	ug/kg	1,630	652,088	No
100-H-41_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2,310	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	200	2.18E+07	No
100-H-41_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	500	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	200	6,000[b]	No
100-H-41_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	593	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,690	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	281,000	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	237	1.51E+07	No
100-H-41_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	622	1.74E+06	No
100-H-41_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,300	2.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1,530	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,900	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,500	3.89E+08	No
100-H-45_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.06E+06	--[a]	--
100-H-45_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	288	5.59E+06	No
100-H-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,430	19,524	No
100-H-45_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	32,900	3.89E+08	No
100-H-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	129	--[a]	--
100-H-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	584	8.59E+07	No
100-H-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	54	296,335	No
100-H-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,910	--[a]	--
100-H-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,180	4.47E+06	No
100-H-45_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	10,500	1.36E+08	No
100-H-45_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.39E+07	3.89E+08	No
100-H-45_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,870	--[a]	--
100-H-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	227,000	3.89E+08	No
100-H-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	262	1.51E+07	No
100-H-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	7,780	2.89E+08	No
100-H-45_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,080	2.00E+06[d]	No
100-H-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	42,600	--[a]	--
100-H-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	28,200	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.2	2.07E+06	No
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	213	2.09E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.45E+06	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	13	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	332	5.59E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	52	1.85E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	48	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-49:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,910	19,524	No
100-H-49:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	175,000	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	20	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	34	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	88	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	337	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	3.1	939	No
100-H-49:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,660	8.59E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	255	296,335	No
100-H-49:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,800	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	316	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,820	4.47E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	27,200	1.36E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	24	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	248	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	89	2.18E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	51	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,200	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	291,000	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	13	2.83E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.6	2.41E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	3,186	No
100-H-49:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	489	1.51E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	115	1.74E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	16,600	2.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	4,400	2.51E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,360	5.57E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	41	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	547	5.86E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	63,800	2.00E+06[d]	No
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	121,000	2.00E+06[d]	No
100-H-49:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,900	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	96,700	3.89E+08	No
100-H-49:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.6	--[a]	--
100-H-49:2_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
100-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	33	--[a]	--
100-H-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	5,900	1,180	Yes
100-H-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	10,600	--[a]	--
100-H-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,200	--[a]	--
100-H-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,363	--[c]	--
100-H-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	--[c]	--
100-H-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.46	--[c]	--
100-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,586	1,180	Yes
100-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,199	--[a]	--
100-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,871	--[a]	--
100-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	72	171,114	No
100-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,869	--[c]	--
100-H-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.072	--[a]	--
100-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.63	--[c]	--
100-H-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.18	--[c]	--
100-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	--[c]	--
100-H-50_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.70E+06	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,860	19,524	No
100-H-50_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,000	3.89E+08	No
100-H-50_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	272	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,420	8.59E+07	No
100-H-50_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	140	296,335	No
100-H-50_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,100	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,130	4.47E+06	No
100-H-50_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,700	1.36E+08	No
100-H-50_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.88E+07	3.89E+08	No
100-H-50_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	12,600	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	3.89E+08	No
100-H-50_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	34	2.83E+06	No
100-H-50_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	361	1.51E+07	No
100-H-50_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,600	2.89E+08	No
100-H-50_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	257	2.22E+06	No
100-H-50_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	53,200	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,100	3.89E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	2.7	2.09E+07	No
100-H-51:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.90E+06	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,940	19,524	No
100-H-51:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	112,000	3.89E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.9	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.9	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.7	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.2	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	345	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,650	8.59E+07	No
100-H-51:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	810	296,335	No
100-H-51:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.0	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,450	4.47E+06	No
100-H-51:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,700	1.36E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.3	3.89E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.32E+07	3.89E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,470	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	504,000	3.89E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	2.83E+06	No
100-H-51:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	401	1.51E+07	No
100-H-51:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	2.89E+08	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-51:4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	276	2.22E+06	No
100-H-51:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,300	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,100	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	37	2.09E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.77E+06	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	0.92	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,470	19,524	No
100-H-51:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	199,000	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.0	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.8	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.0	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	383	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	26,300	8.59E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	133	296,335	No
100-H-51:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,400	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,800	4.47E+06	No
100-H-51:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,000	1.36E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.9	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	9.2	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	10	2.18E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,250	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	440	1.51E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	16	1.74E+06	No
100-H-51:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,700	2.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	5.7	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	221	2.22E+06	No
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,900	2.00E+06[d]	No
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	47,700	2.00E+06[d]	No
100-H-51:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	38,600	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,300	3.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	7.4	2.09E+07	No
100-H-53_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.76E+06	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,580	19,524	No
100-H-53_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	52,300	3.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	61	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.5	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.8	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.3	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	231	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,310	8.59E+07	No
100-H-53_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	397	296,335	No
100-H-53_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,900	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	22	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,500	4.47E+06	No
100-H-53_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,800	1.36E+08	No
100-H-53_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.1	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	82	3.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.8	2.18E+07	No
100-H-53_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,520	6,000[b]	No
100-H-53_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	24	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.66E+07	3.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	35,900	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300,000	3.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3,840	1.51E+07	No
100-H-53_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	6.6	1.74E+06	No
100-H-53_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,200	2.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	42	3.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	35,100	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,900	3.89E+08	No
100-H-53_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.84E+06	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	470	2.30E+06	No
100-H-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	8,035	No
100-H-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	47,200	1.60E+08	No
100-H-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	330	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	3.53E+07	No
100-H-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	110	121,949	No
100-H-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,700	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,800	1.84E+06	No
100-H-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	5.62E+07	No
100-H-7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	1.60E+08	No
100-H-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,900	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	264,000	1.60E+08	No
100-H-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	620	6.22E+06	No
100-H-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,900	1.19E+08	No
100-H-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,100	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,200	1.60E+08	No
100-H-8_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.39E+06	--[a]	--
100-H-8_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	520	2.33E+06	No
100-H-8_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,300	8,135	No
100-H-8_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	68,100	1.62E+08	No
100-H-8_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	440	--[a]	--
100-H-8_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,200	3.58E+07	No
100-H-8_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	340	123,473	No
100-H-8_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	--[a]	--
100-H-8_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	1.86E+06	No
100-H-8_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	23,400	5.69E+07	No
100-H-8_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.45E+07	1.62E+08	No
100-H-8_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,800	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-8_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	1.62E+08	No
100-H-8_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	310	1.18E+06	No
100-H-8_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	930	6.30E+06	No
100-H-8_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,200	1.21E+08	No
100-H-8_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,900	--[a]	--
100-H-8_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	53,500	1.62E+08	No
116-H-1_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	6,282	319	Yes
116-H-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	23,100	--[a]	--
116-H-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	47	--[a]	--
116-H-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.1	--[a]	--
116-H-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	58	--[a]	--
116-H-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	6.6	--[a]	--
116-H-1_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	--[a]	--
116-H-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	--[a]	--
116-H-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	2,556	No
116-H-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,625	319	Yes
116-H-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,151	--[a]	--
116-H-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	6,000[b]	No
116-H-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,408	--[a]	--
116-H-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	--[a]	--
116-H-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.69	--[a]	--
116-H-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.15	--[a]	--
116-H-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	--[a]	--
116-H-1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.74	2,556	No
116-H-3_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,900	19,524	No
116-H-3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,960	6,000[b]	No
116-H-3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	10	--[a]	--
116-H-3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.84	--[a]	--
116-H-3_Deep	Rad	Europium-152	14683-23-9	pCi/g	23	--[a]	--
116-H-3_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.1	--[a]	--
116-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8,300	19,524	No
116-H-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.053	--[a]	--
116-H-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	--[a]	--
116-H-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.66	--[a]	--
116-H-5_Deep	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.1	23,588	No
116-H-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	3.1	--[a]	--
116-H-5_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	6.91E+06	--[a]	--
116-H-5_Deep	non-Rad	Anthracene	120-12-7	ug/kg	5.1	2.57E+07	No
116-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.3	--[a]	--
116-H-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	5,372	1,290	Yes
116-H-5_Deep	non-Rad	Barium	7440-39-3	ug/kg	67,200	2.57E+07	No
116-H-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38	--[a]	--
116-H-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	41	--[a]	--
116-H-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	51	--[a]	--
116-H-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	30	--[a]	--
116-H-5_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	104	--[a]	--
116-H-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	84	8.57E+06	No
116-H-5_Deep	non-Rad	Boron	7440-42-8	ug/kg	1,200	5.68E+06	No
116-H-5_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	88	19,586	No
116-H-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,448	--[a]	--
116-H-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	45	--[a]	--
116-H-5_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	6,209	295,754	No
116-H-5_Deep	non-Rad	Copper	7440-50-8	ug/kg	15,413	9.02E+06	No
116-H-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	69	2.57E+07	No
116-H-5_Deep	non-Rad	Fluoride	16984-48-8	ug/kg	1,092	2.57E+07	No
116-H-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	35	--[a]	--
116-H-5_Deep	non-Rad	Iron	7439-89-6	ug/kg	1.69E+07	2.57E+07	No
116-H-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	16,378	--[a]	--
116-H-5_Deep	non-Rad	Manganese	7439-96-5	ug/kg	254,139	2.57E+07	No
116-H-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	20	187,060	No
116-H-5_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	870	999,674	No
116-H-5_Deep	non-Rad	Nickel	7440-02-0	ug/kg	11,568	1.91E+07	No
116-H-5_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	132,545	1.66E+06	No
116-H-5_Deep	non-Rad	Nitrite	14797-65-0	ug/kg	1,300	121,434	No
116-H-5_Deep	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	23,726	367,982	No
116-H-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	77	2.57E+07	No
116-H-5_Deep	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	81,718	2.00E+06[c]	No
116-H-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,878	--[c]	--
116-H-5_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	46,454	--[a]	--
116-H-5_Deep	non-Rad	Zinc	7440-66-6	ug/kg	45,768	2.57E+07	No
116-H-5_Deep	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--[a]	--
116-H-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.59	--[a]	--
116-H-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	--[a]	--
116-H-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.3	--[a]	--
116-H-5_Deep	Rad	Nickel-63	13981-37-8	pCi/g	13	112,094	No
116-H-5_Deep	Rad	Tritium	10028-17-8	pCi/g	3.3	1,189	No
116-H-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	--[c]	--
116-H-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.63	--[c]	--
116-H-5_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45	136,617	No
116-H-5_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	22	1.38E+06	No
116-H-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.51E+06	--[a]	--
116-H-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	36	2.57E+07	No
116-H-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	406	369,692	No
116-H-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	5,801	1,290	Yes
116-H-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	53,734	2.57E+07	No
116-H-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[a]	--
116-H-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	51	--[a]	--
116-H-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	52	--[a]	--
116-H-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	24	--[a]	--
116-H-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	173	--[a]	--
116-H-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	8.57E+06	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-H-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,458	5.68E+06	No
116-H-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	68	19,586	No
116-H-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,538	--[a]	--
116-H-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	69	--[a]	--
116-H-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	5,586	295,754	No
116-H-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,591	9.02E+06	No
116-H-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.4	--[a]	--
116-H-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	130	2.57E+07	No
116-H-5_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	7.6	1.44E+06	No
116-H-5_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	799	2.57E+07	No
116-H-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	6,000[b]	No
116-H-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34	--[a]	--
116-H-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.68E+07	2.57E+07	No
116-H-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	16,326	--[a]	--
116-H-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	258,053	2.57E+07	No
116-H-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	275	999,674	No
116-H-5_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	25	114,808	No
116-H-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,808	1.91E+07	No
116-H-5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	9,911	1.66E+06	No
116-H-5_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	960	367,982	No
116-H-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,151	367,982	No
116-H-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	100	2.57E+07	No
116-H-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	156	387,630	No
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,200	2.00E+06[d]	No
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,500	2.00E+06[d]	No
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,996	2.00E+06[d]	No
116-H-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,677	--[c]	--
116-H-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	44,444	--[a]	--
116-H-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,379	2.57E+07	No
116-H-5_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--[a]	--
116-H-5_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	1.4	--[a]	--
116-H-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	3.0	1,189	No
116-H-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[c]	--
116-H-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.56	--[c]	--
116-H-5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45	136,617	No
116-H-5_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8	1.38E+06	No
116-H-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.18E+06	--[a]	--
116-H-5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.7	2.57E+07	No
116-H-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	378	369,692	No
116-H-5_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.9	--[a]	--
116-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,405	1,290	Yes
116-H-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,357	2.57E+07	No
116-H-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[a]	--
116-H-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[a]	--
116-H-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[a]	--
116-H-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.8	--[a]	--
116-H-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	202	--[a]	--
116-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,169	5.68E+06	No
116-H-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	80	19,586	No
116-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,831	--[a]	--
116-H-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	11	--[a]	--
116-H-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,335	295,754	No
116-H-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,502	9.02E+06	No
116-H-5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[a]	--
116-H-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	27	2.57E+07	No
116-H-5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.6	1.44E+06	No
116-H-5_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	903	2.57E+07	No
116-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60	6,000[b]	No
116-H-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.9	--[a]	--
116-H-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.87E+07	2.57E+07	No
116-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	14,110	--[a]	--
116-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	270,919	2.57E+07	No
116-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	18	187,060	No
116-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	280	999,674	No
116-H-5_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	15	114,808	No
116-H-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,834	1.91E+07	No
116-H-5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8,424	1.66E+06	No
116-H-5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,100	367,982	No
116-H-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,266	367,982	No
116-H-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	26	2.57E+07	No
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,600	2.00E+06[d]	No
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,100	2.00E+06[d]	No
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,314	2.00E+06[d]	No
116-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,966	--[c]	--
116-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,734	--[a]	--
116-H-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,292	2.57E+07	No
116-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.0	--[a]	--
116-H-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	19	112,094	No
116-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4	10,346	No
116-H-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	4.1	1,189	No
116-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	--[c]	--
116-H-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.20	--[c]	--
116-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.66	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	11	136,617	No
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.3	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	7.33E+06	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	87	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15	122,004	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	10,280	1,290	Yes
116-H-5_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	75,287	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	76	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	59	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	64	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	142	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	122	8.57E+06	No
116-H-5_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2,700	5.68E+06	No
116-H-5_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	112	19,586	No
116-H-5_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10,981	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	59	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,774	295,754	No
116-H-5_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	14,733	9.02E+06	No
116-H-5_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	400	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	57	1.44E+06	No
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoride	16984-48-8	ug/kg	1,166	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	42	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.78E+07	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	45,682	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	280,936	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	12	187,060	No
116-H-5_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	330	999,674	No
116-H-5_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,771	1.91E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	44,800	367,982	No
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	50,900	367,982	No
116-H-5_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	137	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,400	2.00E+06[d]	No
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	20,867	2.00E+06[d]	No
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,039	2.00E+06[d]	No
116-H-5_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	703	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	47,752	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	40,271	2.57E+07	No
116-H-5_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.068	--[a]	--
116-H-5_Staging Pile Area Footprint	Rad	Technetium-99	14133-76-7	pCi/g	0.81	33	No
116-H-5_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.23	--[c]	--
116-H-5_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.20	--[c]	--
116-H-7_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	94	2,891	No
116-H-7_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	256	--[a]	--
116-H-7_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,472	234	Yes
116-H-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	55,857	--[a]	--
116-H-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,795	6,000[b]	No
116-H-7_Deep	non-Rad	Lead	7439-92-1	ug/kg	9,132	--[a]	--
116-H-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,002	33,895	No
116-H-7_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,347	--[c]	--
116-H-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22	--[a]	--
116-H-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	6.5	--[a]	--
116-H-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	65	--[a]	--
116-H-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.7	--[a]	--
116-H-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	316	20,311	No
116-H-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.099	--[c]	--
116-H-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.86	--[a]	--
116-H-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.5	1,875	No
116-H-7_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[c]	--
116-H-7_Deep	Rad	Uranium-238	U-238	pCi/g	0.45	--[c]	--
116-H-7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	77	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-H-7_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,172	234	Yes
116-H-7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,042	--[a]	--
116-H-7_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	590	6,000[b]	No
116-H-7_Overburden	non-Rad	Lead	7439-92-1	ug/kg	9,806	--[a]	--
116-H-7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,551	--[c]	--
116-H-7_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.10	--[c]	--
116-H-7_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.45	--[c]	--
116-H-7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.52	--[c]	--
116-H-7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	660	--[a]	--
116-H-7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,540	234	Yes
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,656	--[a]	--
116-H-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	958	6,000[b]	No
116-H-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	20,249	--[a]	--
116-H-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,583	--[c]	--
116-H-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[c]	--
116-H-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.68	--[a]	--
116-H-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[c]	--
116-H-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	--[c]	--
116-H-9_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.65E+06	--[a]	--
116-H-9_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	435	5.59E+06	No
116-H-9_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	23	1.85E+06	No
116-H-9_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.6	--[a]	--
116-H-9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,605	19,524	No
116-H-9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,597	3.89E+08	No
116-H-9_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	272	--[a]	--
116-H-9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,253	8.59E+07	No
116-H-9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	100	296,335	No
116-H-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,945	--[a]	--
116-H-9_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,313	4.47E+06	No
116-H-9_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,904	1.36E+08	No
116-H-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	262	6,000[b]	No
116-H-9_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.82E+07	3.89E+08	No
116-H-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,609	--[a]	--
116-H-9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	286,352	3.89E+08	No
116-H-9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	15	2.83E+06	No
116-H-9_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	243	1.51E+07	No
116-H-9_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,510	2.89E+08	No
116-H-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,072	--[c]	--
116-H-9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	42,911	--[a]	--
116-H-9_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	37,067	3.89E+08	No
116-H-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.027	--[c]	--
116-H-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	--[c]	--
116-H-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.70	--[c]	--
118-H-1:1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	75	98,389	No
118-H-1:1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.43E+06	--[a]	--
118-H-1:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	8.2	1.83E+06	No
118-H-1:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	489	26,367	No
118-H-1:1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.5	8,701	No
118-H-1:1_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10	--[a]	--
118-H-1:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	5,698	92	Yes
118-H-1:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	101,322	1.83E+06	No
118-H-1:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	34	--[a]	--
118-H-1:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	57	--[a]	--
118-H-1:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	33	--[a]	--
118-H-1:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19	--[a]	--
118-H-1:1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	288	--[a]	--
118-H-1:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	10,532	404,872	No
118-H-1:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	76	1,397	No
118-H-1:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,618	--[a]	--
118-H-1:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	51	--[a]	--
118-H-1:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,752	21,093	No
118-H-1:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	16,317	643,311	No
118-H-1:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.6	--[a]	--
118-H-1:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	134	1.83E+06	No
118-H-1:1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	6.8	102,770	No
118-H-1:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[a]	--
118-H-1:1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	1.83E+06	Yes
118-H-1:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	17,746	--[a]	--
118-H-1:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	344,387	1.83E+06	No
118-H-1:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	11	13,341	No
118-H-1:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	366	71,298	No
118-H-1:1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	13	8,188	No
118-H-1:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	13,289	1.36E+06	No
118-H-1:1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,753	26,245	No
118-H-1:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	117	1.83E+06	No
118-H-1:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	326	10,455	No
118-H-1:1_Overburden	non-Rad	Silver	7440-22-4	ug/kg	224	27,646	No
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,992	2.00E+06[c]	No
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	15,814	2.00E+06[d]	No
118-H-1:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,281	--[a]	--
118-H-1:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,523	1.83E+06	No
118-H-1:1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.4	--[a]	--
118-H-1:1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.061	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	2.5	98,389	No
118-H-1:1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.57E+06	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	3.6	1.83E+06	No
118-H-1:1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,459	92	Yes
118-H-1:1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	49,873	1.83E+06	No
118-H-1:1_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.8	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.3	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.1	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-1:1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	181	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,456	404,872	No
118-H-1:1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	50	1,397	No
118-H-1:1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,810	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	11	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	5,630	21,093	No
118-H-1:1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,893	643,311	No
118-H-1:1_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.4	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	17	1.83E+06	No
118-H-1:1_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	1.5	102,770	No
118-H-1:1_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.5	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	1.83E+06	Yes
118-H-1:1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	6,609	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	252,370	1.83E+06	No
118-H-1:1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	18	13,341	No
118-H-1:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	249	71,298	No
118-H-1:1_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	3.3	8,188	No
118-H-1:1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,583	1.36E+06	No
118-H-1:1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,340	26,245	No
118-H-1:1_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	36	1.83E+06	No
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,000	10,455	No
118-H-1:1_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,315	2.00E+06[d]	No
118-H-1:1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,653	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	33,577	1.83E+06	No
118-H-1:1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	1.9	--[c]	--
118-H-1:1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.17	--[a]	--
118-H-1:1_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	--[a]	--
118-H-1:1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.21	--[a]	--
118-H-1:1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.8	--[a]	--
118-H-1:1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	738	No
118-H-1:1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	3.4	85	No
118-H-1:1_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.8	98,389	No
118-H-1:1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.69E+06	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	3.0	1.83E+06	No
118-H-1:1_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	257	26,367	No
118-H-1:1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.1	8,701	No
118-H-1:1_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,887	92	Yes
118-H-1:1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	51,004	1.83E+06	No
118-H-1:1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.1	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.3	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.7	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	182	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,763	404,872	No
118-H-1:1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	114	1,397	No
118-H-1:1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,051	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	3.7	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,566	21,093	No
118-H-1:1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,353	643,311	No
118-H-1:1_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	21	1.83E+06	No
118-H-1:1_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	1.5	102,770	No
118-H-1:1_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.9	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.69E+07	1.83E+06	Yes
118-H-1:1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,641	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	254,153	1.83E+06	No
118-H-1:1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	57	13,341	No
118-H-1:1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	237	71,298	No
118-H-1:1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,937	1.36E+06	No
118-H-1:1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,950	26,245	No
118-H-1:1_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	9.2	1.83E+06	No
118-H-1:1_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	3,880	2.00E+06[d]	No
118-H-1:1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,883	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	34,227	1.83E+06	No
118-H-1:1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.8	--[c]	--
118-H-1:1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.52	--[a]	--
118-H-1:1_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.11	--[a]	--
118-H-1:1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.26	--[a]	--
118-H-1:1_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	8.6	7,995	No
118-H-1:1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3	738	No
118-H-1:1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	4.0	85	No
118-H-1:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	6.9	98,389	No
118-H-1:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.20E+06	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	226	26,367	No
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	29	8,701	No
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	28	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,110	92	Yes
118-H-1:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	98,300	1.83E+06	No
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.5	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	5.3	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.7	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	206	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,160	404,872	No
118-H-1:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	306	1,397	No
118-H-1:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	22,000	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	25	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,740	21,093	No
118-H-1:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,700	643,311	No
118-H-1:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.89	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	17	1.83E+06	No
118-H-1:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-1:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.78E+07	1.83E+06	Yes
118-H-1:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,900	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295,000	1.83E+06	No
118-H-1:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	202	13,341	No
118-H-1:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	341	71,298	No
118-H-1:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	8.2	8,188	No
118-H-1:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	1.36E+06	No
118-H-1:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,480	26,245	No
118-H-1:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	11	1.83E+06	No
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,500	2.00E+06[d]	No
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,300	2.00E+06[d]	No
118-H-1:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44,900	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,700	1.83E+06	No
118-H-1:1_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	2.1	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.0	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.30	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	11	7,995	No
118-H-1:1_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	738	No
118-H-1:1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	8.7	85	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Acenaphthene	83-32-9	ug/kg	5.3	98,389	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,372	92	Yes
118-H-1:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	47,506	1.83E+06	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.6	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.9	--[e]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.2	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[b]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	182	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,217	404,872	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	87	1,397	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	12,039	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	2.1	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	5,255	21,093	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	13,136	643,311	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	3.8	1.83E+06	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.8	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.64E+07	1.83E+06	Yes
118-H-1:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	5,802	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	254,283	1.83E+06	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	32	13,341	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	223	71,298	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,780	1.36E+06	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,861	26,245	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	5.7	1.83E+06	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Silver	7440-22-4	ug/kg	131	27,646	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	7,617	2.00E+06[d]	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	42,420	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	32,172	1.83E+06	No
118-H-1:1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	1.1	--[a]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.69	--[a]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	--[a]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Europium-152	14683-23-9	pCi/g	0.19	--[a]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.49	738	No
118-H-1:1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	2.7	85	No
118-H-1:2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	--[a]	--
118-H-1:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	12	1.83E+06	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-1:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,301	92	Yes
118-H-1:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88,725	1.83E+06	No
118-H-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	28	--[a]	--
118-H-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33	--[a]	--
118-H-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--[a]	--
118-H-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	40	--[a]	--
118-H-1:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	207	--[a]	--
118-H-1:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,323	404,872	No
118-H-1:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	136	1,397	No
118-H-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,971	--[a]	--
118-H-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--[a]	--
118-H-1:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,234	21,093	No
118-H-1:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,149	643,311	No
118-H-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	76	1.83E+06	No
118-H-1:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	7.3	102,770	No
118-H-1:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	544	6,000[b]	No
118-H-1:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	68	--[a]	--
118-H-1:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.93E+07	1.83E+06	Yes
118-H-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,968	--[a]	--
118-H-1:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	340,196	1.83E+06	No
118-H-1:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	13,341	No
118-H-1:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	300	71,298	No
118-H-1:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13,022	1.36E+06	No
118-H-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	84	1.83E+06	No
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,600	2.00E+06[c]	No
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,042	2.00E+06[d]	No
118-H-1:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	44,407	--[a]	--
118-H-1:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,743	1.83E+06	No
118-H-1:2_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.064	85	No
118-H-1:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.95E+06	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	7.6	1.83E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	92	Yes
118-H-1:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,700	1.83E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	43	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	35	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	110	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	404,872	No
118-H-1:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	120	1,397	No
118-H-1:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,000	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	35	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,600	21,093	No
118-H-1:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	643,311	No
118-H-1:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	83	1.83E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369	6,000[b]	No
118-H-1:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	26	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.55E+07	1.83E+06	Yes
118-H-1:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,700	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273,000	1.83E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,200	1.36E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	52	1.83E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	2.00E+06[d]	No
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,100	2.00E+06[d]	No
118-H-1:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	37,100	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,800	1.83E+06	No
118-H-1:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	0.81	--[a]	--
118-H-2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.95E+06	--[a]	--
118-H-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,041	448	Yes
118-H-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	64,447	8.93E+06	No
118-H-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	224	--[a]	--
118-H-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,365	1.97E+06	No
118-H-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	86	6,803	No
118-H-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,049	--[a]	--
118-H-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,814	102,726	No
118-H-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,954	3.13E+06	No
118-H-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	171	6,000[b]	No
118-H-2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.72E+07	8.93E+06	Yes
118-H-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,481	--[a]	--
118-H-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	266,309	8.93E+06	No
118-H-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	64,973	No
118-H-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	309	347,224	No
118-H-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,619	6.64E+06	No
118-H-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,689	--[e]	--
118-H-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	41,613	--[a]	--
118-H-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	34,224	8.93E+06	No
118-H-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.30	--[e]	--
118-H-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	--[e]	--
118-H-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	13	38,934	No
118-H-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[e]	--
118-H-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.032	--[e]	--
118-H-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	--[e]	--
118-H-3_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	9.41E+06	--[a]	--
118-H-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	743	50,391	No
118-H-3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	55	--[a]	--
118-H-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	15,852	176	Yes
118-H-3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	83,791	3.50E+06	No
118-H-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	321	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	3,104	773,779	No
118-H-3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	153	2,670	No
118-H-3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,218	--[a]	--
118-H-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,931	40,313	No
118-H-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	23,535	1.23E+06	No
118-H-3_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80	6,000[b]	No
118-H-3_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.50E+06	Yes
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	57,642	--[a]	--
118-H-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	345,494	3.50E+06	No
118-H-3_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	11	25,498	No
118-H-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	1,412	136,262	No
118-H-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	14,747	2.61E+06	No
118-H-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	417	52,836	No
118-H-3_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,864	--[c]	--
118-H-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	45,491	--[a]	--
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	132,913	3.50E+06	No
118-H-3_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	--[c]	--
118-H-3_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	0.033	--[c]	--
118-H-3_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.63	--[c]	--
118-H-3_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.49E+06	--[a]	--
118-H-3_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[a]	--
118-H-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,014	176	Yes
118-H-3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	73,070	3.50E+06	No
118-H-3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	261	--[a]	--
118-H-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,578	773,779	No
118-H-3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	97	2,670	No
118-H-3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,622	--[a]	--
118-H-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,141	40,313	No
118-H-3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,147	1.23E+06	No
118-H-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	400	6,000[b]	No
118-H-3_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	3.50E+06	Yes
118-H-3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	6,789	--[a]	--
118-H-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	300,387	3.50E+06	No
118-H-3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	15	25,498	No
118-H-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	280	136,262	No
118-H-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,769	2.61E+06	No
118-H-3_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,910	--[c]	--
118-H-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,329	--[a]	--
118-H-3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	38,757	3.50E+06	No
118-H-3_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[c]	--
118-H-3_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.64	--[c]	--
118-H-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.10E+06	--[a]	--
118-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	176	Yes
118-H-3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	56,700	3.50E+06	No
118-H-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	211	--[a]	--
118-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,630	773,779	No
118-H-3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	81	2,670	No
118-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,110	--[a]	--
118-H-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,690	40,313	No
118-H-3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	1.23E+06	No
118-H-3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.66E+07	3.50E+06	Yes
118-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,600	--[a]	--
118-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	255,000	3.50E+06	No
118-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	363	136,262	No
118-H-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,550	2.61E+06	No
118-H-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,819	--[c]	--
118-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,300	--[a]	--
118-H-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,900	3.50E+06	No
118-H-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.23	--[a]	--
118-H-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.53	--[a]	--
118-H-3_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	8.8	15,279	No
118-H-3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[c]	--
118-H-3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.95	--[c]	--
118-H-4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.89E+06	--[a]	--
118-H-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,442	17,433	No
118-H-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,445	3.47E+08	No
118-H-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	228	--[a]	--
118-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,534	7.67E+07	No
118-H-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	132	264,585	No
118-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,715	--[a]	--
118-H-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,894	4.00E+06	No
118-H-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,054	1.22E+08	No
118-H-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	90	6,000[b]	No
118-H-4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.84E+07	3.47E+08	No
118-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	9,065	--[a]	--
118-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,088	3.47E+08	No
118-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	2.53E+06	No
118-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	437	1.35E+07	No
118-H-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,015	2.58E+08	No
118-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	45,964	--[a]	--
118-H-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,843	3.47E+08	No
118-H-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.1	--[a]	--
118-H-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.10	--[a]	--
118-H-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.3	139,760	No
118-H-4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.70E+06	--[a]	--
118-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	17,433	No
118-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	46,300	3.47E+08	No
118-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	148	--[a]	--
118-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,440	7.67E+07	No
118-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	113	264,585	No
118-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,900	--[a]	--
118-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,520	4.00E+06	No
118-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,600	1.22E+08	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.42E+07	3.47E+08	No
118-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,330	--[a]	--
118-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	222,000	3.47E+08	No
118-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	424	1.35E+07	No
118-H-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,730	2.58E+08	No
118-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,000	--[a]	--
118-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,300	3.47E+08	No
118-H-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.25	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	6.03E+06	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	3,913	17,433	No
118-H-4_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	63,087	3.47E+08	No
118-H-4_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	176	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	2,987	7.67E+07	No
118-H-4_Staging Pile Area	non-Rad	Cadmium	7440-43-9	ug/kg	170	264,585	No
118-H-4_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	9,780	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	6,100	4.00E+06	No
118-H-4_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	14,864	1.22E+08	No
118-H-4_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	150	6,000[b]	No
118-H-4_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	3.47E+08	No
118-H-4_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	28,136	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	258,296	3.47E+08	No
118-H-4_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	482	1.35E+07	No
118-H-4_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	9,598	2.58E+08	No
118-H-4_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	48,115	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	72,799	3.47E+08	No
118-H-4_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
118-H-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.59E+06	--[a]	--
118-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,597	17,433	No
118-H-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,388	3.47E+08	No
118-H-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	232	--[a]	--
118-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	6,246	7.67E+07	No
118-H-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	57	264,585	No
118-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,718	--[a]	--
118-H-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,765	4.00E+06	No
118-H-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,038	1.22E+08	No
118-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369	6,000[b]	No
118-H-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.68E+07	3.47E+08	No
118-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,128	--[a]	--
118-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	276,172	3.47E+08	No
118-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	329	1.35E+07	No
118-H-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,970	2.58E+08	No
118-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,871	--[c]	--
118-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,149	--[a]	--
118-H-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	36,296	3.47E+08	No
118-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.8	--[a]	--
118-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	139,760	No
118-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	--[c]	--
118-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	--[c]	--
118-H-5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.88E+06	--[a]	--
118-H-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,490	17,433	No
118-H-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	46,100	3.47E+08	No
118-H-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	197	--[a]	--
118-H-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,290	7.67E+07	No
118-H-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	47	264,585	No
118-H-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,500	--[a]	--
118-H-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,490	4.00E+06	No
118-H-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,700	1.22E+08	No
118-H-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[b]	No
118-H-5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.57E+07	3.47E+08	No
118-H-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	9,240	--[a]	--
118-H-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	257,000	3.47E+08	No
118-H-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	277	1.35E+07	No
118-H-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	2.58E+08	No
118-H-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,105	--[c]	--
118-H-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,400	--[a]	--
118-H-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	33,900	3.47E+08	No
118-H-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[c]	--
118-H-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.71	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,500	6,000[b]	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Lead	7439-92-1	ug/kg	22,400	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,286	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	0.27	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	5.0	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	1.3	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.052	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	15	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.97	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	5.6	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Uranium-238	U-238	pCi/g	0.77	--[c]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	17	16,935	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	940	6,000[b]	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Lead	7439-92-1	ug/kg	19,900	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,649	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	0.56	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	25	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cesium-137	10045-97-3	pCi/g	20	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	3.4	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	0.43	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Neptunium-237	13994-20-2	pCi/g	0.036	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	43	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.0	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.3	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Tritium	10028-17-8	pCi/g	0.25	165	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-235	15117-96-1	pCi/g	0.037	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-238	U-238	pCi/g	0.55	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,396	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Cesium-137	10045-97-3	pCi/g	0.39	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.57	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Tritium	10028-17-8	pCi/g	0.57	165	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.40	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Uranium-238	U-238	pCi/g	0.47	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	34,300	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,721	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.30	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.3	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	5.2	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-154	15585-10-1	pCi/g	0.66	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Neptunium-237	13994-20-2	pCi/g	0.029	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	25	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.40	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.63	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	0.038	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	0.58	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,542	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	1.2	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.033	19	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	15	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.52	--[c]	--
118-H-6:4_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.37E+06	--[a]	--
118-H-6:4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,176	170	Yes
118-H-6:4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	57,934	3.38E+06	No
118-H-6:4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	167	--[a]	--
118-H-6:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	809	746,865	No
118-H-6:4_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	86	2,577	No
118-H-6:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,710	--[a]	--
118-H-6:4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,242	38,911	No
118-H-6:4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,371	1.19E+06	No
118-H-6:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	127	6,000[b]	No
118-H-6:4_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.82E+07	3.38E+06	Yes
118-H-6:4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,138	--[a]	--
118-H-6:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	265,613	3.38E+06	No
118-H-6:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	24	24,611	No
118-H-6:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	327	131,522	No
118-H-6:4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,985	2.51E+06	No
118-H-6:4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,569	--[c]	--
118-H-6:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	45,939	--[a]	--
118-H-6:4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,240	3.38E+06	No
118-H-6:4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.18	--[a]	--
118-H-6:4_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.93	--[a]	--
118-H-6:4_Overburden	Rad	Neptunium-237	13994-20-2	pCi/g	0.077	18	No
118-H-6:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.48	1,361	No
118-H-6:4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[c]	--
118-H-6:4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.53	--[c]	--
118-H-6:4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.83E+06	--[a]	--
118-H-6:4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,849	170	Yes
118-H-6:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,215	3.38E+06	No
118-H-6:4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	188	--[a]	--
118-H-6:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	633	746,865	No
118-H-6:4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	100	2,577	No
118-H-6:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,218	--[a]	--
118-H-6:4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,711	38,911	No
118-H-6:4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	19,414	1.19E+06	No
118-H-6:4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	3.38E+06	Yes
118-H-6:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,409	--[a]	--
118-H-6:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	251,118	3.38E+06	No
118-H-6:4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	442	131,522	No
118-H-6:4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,521	2.51E+06	No
118-H-6:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,653	--[c]	--
118-H-6:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,568	--[a]	--
118-H-6:4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,342	3.38E+06	No
118-H-6:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
118-H-6:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	--[c]	--
118-H-6:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.56	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	5.8	181,497	No
118-H-6:5_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.02E+07	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	2.8	3.38E+06	No
118-H-6:5_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	664	48,639	No
118-H-6:5_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	16,051	No
118-H-6:5_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.4	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	39,809	170	Yes
118-H-6:5_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	87,997	3.38E+06	No
118-H-6:5_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	26	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	319	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,401	746,865	No
118-H-6:5_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	75	2,577	No
118-H-6:5_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,672	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	19	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,195	38,911	No
118-H-6:5_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,954	1.19E+06	No
118-H-6:5_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.2	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	78	3.38E+06	No
118-H-6:5_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	2.7	189,580	No
118-H-6:5_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80	6,000[b]	No
118-H-6:5_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	21	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.38E+06	Yes
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	171,632	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	338,381	3.38E+06	No
118-H-6:5_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	485	131,522	No
118-H-6:5_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	16	15,105	No
118-H-6:5_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,228	2.51E+06	No
118-H-6:5_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	66	3.38E+06	No
118-H-6:5_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,426	2.00E+06[d]	No
118-H-6:5_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,998	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	46,713	3.38E+06	No
118-H-6:5_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	7.1	--[a]	--
118-H-6:5_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.18	--[a]	--
118-H-6:5_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	0.38	4.4	No
118-H-6:5_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	--[c]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-6:5_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.67	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	24	181,497	No
118-H-6:5_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.27E+06	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	9.7	3.38E+06	No
118-H-6:5_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	464	48,639	No
118-H-6:5_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	6,824	170	Yes
118-H-6:5_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	111,681	3.38E+06	No
118-H-6:5_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	98	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	69	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	204	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	62	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	239	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	12,190	746,865	No
118-H-6:5_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	88	2,577	No
118-H-6:5_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,953	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	121	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,641	38,911	No
118-H-6:5_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	15,897	1.19E+06	No
118-H-6:5_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.4	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	707	3.38E+06	No
118-H-6:5_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	5.6	189,580	No
118-H-6:5_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60	6,000[b]	No
118-H-6:5_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.86E+07	3.38E+06	Yes
118-H-6:5_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	13,861	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	310,415	3.38E+06	No
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	167	24,611	No
118-H-6:5_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	467	131,522	No
118-H-6:5_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	44	15,105	No
118-H-6:5_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,980	2.51E+06	No
118-H-6:5_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	254	3.38E+06	No
118-H-6:5_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	38,884	2.00E+06[d]	No
118-H-6:5_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,777	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	53,432	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.1	34,228	No
118-H-6:5_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	44,927	3.38E+06	No
118-H-6:5_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.4	--[a]	--
118-H-6:5_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.100	--[a]	--
118-H-6:5_Shallow_2	Rad	Technetium-99	14133-76-7	pCi/g	0.40	4.4	No
118-H-6:5_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	6.7	156	No
118-H-6:5_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	--[c]	--
118-H-6:5_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.59	--[c]	--
118-H-6:5_Shallow_3	non-Rad	2-Hexanone	591-78-6	ug/kg	4.7	236	No
118-H-6:5_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8	181,497	No
118-H-6:5_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.40E+06	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	2.4	3.38E+06	No
118-H-6:5_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	505	48,639	No
118-H-6:5_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	4,522	170	Yes
118-H-6:5_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	62,837	3.38E+06	No
118-H-6:5_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.2	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.7	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.2	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.5	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	211	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,892	746,865	No
118-H-6:5_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	97	2,577	No
118-H-6:5_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	10,827	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	3.2	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,132	38,911	No
118-H-6:5_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	13,821	1.19E+06	No
118-H-6:5_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.98	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	9.5	3.38E+06	No
118-H-6:5_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.74E+07	3.38E+06	Yes
118-H-6:5_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	11,233	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	281,265	3.38E+06	No
118-H-6:5_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.6	28	No
118-H-6:5_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	374	131,522	No
118-H-6:5_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	42	15,105	No
118-H-6:5_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,882	2.51E+06	No
118-H-6:5_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	10	3.38E+06	No
118-H-6:5_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,695	2.00E+06[d]	No
118-H-6:5_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,234	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,611	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,700	3.38E+06	No
118-H-6:5_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	0.96	--[a]	--
118-H-6:5_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
118-H-6:5_Shallow_3	Rad	Tritium	10028-17-8	pCi/g	7.0	156	No
118-H-6:5_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	--[c]	--
118-H-6:5_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0.75	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	8.3	181,497	No
118-H-6:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.75E+06	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	4.9	3.38E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	592	48,639	No
118-H-6:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	27,000	170	Yes
118-H-6:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	65,600	3.38E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	53	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	40	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	251	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,710	746,865	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-6:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	103	2,577	No
118-H-6:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,000	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	47	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,700	38,911	No
118-H-6:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	34,500	1.19E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.5	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	171	3.38E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	3.7	189,580	No
118-H-6:5_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	3.38E+06	Yes
118-H-6:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	114,000	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	311,000	3.38E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	439	131,522	No
118-H-6:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	10	15,105	No
118-H-6:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	2.51E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	149	3.38E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,000	2.00E+06[d]	No
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000	2.00E+06[d]	No
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - gasoline range	TPHGASOLINE	ug/kg	470	1.00E+06[d]	No
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	41,600	2.00E+06[d]	No
118-H-6:5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,054	--[i]	--
118-H-6:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	49,400	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,400	3.38E+06	No
118-H-6:5_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--[a]	--
118-H-6:5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	4.1	156	No
118-H-6:5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.93	--[c]	--
118-H-6:5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.69	--[c]	--
128-H-1_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.29	11,282	No
128-H-1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	4.4	113,919	No
128-H-1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.54E+06	--[a]	--
128-H-1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	3.1	2.12E+06	No
128-H-1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.1	10,075	No
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	40,542	107	Yes
128-H-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	85,541	2.12E+06	No
128-H-1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	30	--[a]	--
128-H-1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[a]	--
128-H-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--[a]	--
128-H-1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19	--[a]	--
128-H-1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	274	--[a]	--
128-H-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	144	707,933	No
128-H-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,799	468,778	No
128-H-1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	177	1,617	No
128-H-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,085	--[a]	--
128-H-1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	29	--[a]	--
128-H-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,539	24,423	No
128-H-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,458	744,854	No
128-H-1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6	--[a]	--
128-H-1_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	1.3	9,661	No
128-H-1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	98	2.12E+06	No
128-H-1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	2.6	118,992	No
128-H-1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	39	--[a]	--
128-H-1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.85E+07	2.12E+06	Yes
128-H-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	253,830	--[a]	--
128-H-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,886	2.12E+06	No
128-H-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	15,447	No
128-H-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	391	82,551	No
128-H-1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	5.5	9,481	No
128-H-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,022	1.58E+06	No
128-H-1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	95	2.12E+06	No
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,400	2.00E+06[d]	No
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000	2.00E+06[d]	No
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	39,451	2.00E+06[n]	No
128-H-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	47,044	--[a]	--
128-H-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	49,389	2.12E+06	No
128-H-1_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	11,282	No
128-H-1_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	26	113,919	No
128-H-1_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	9.87E+06	--[a]	--
128-H-1_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	3.5	2.12E+06	No
128-H-1_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	239	30,529	No
128-H-1_Shallow_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.4	--[a]	--
128-H-1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	10,642	107	Yes
128-H-1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	102,210	2.12E+06	No
128-H-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	50	--[a]	--
128-H-1_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	60	--[a]	--
128-H-1_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	59	--[a]	--
128-H-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29	--[a]	--
128-H-1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	297	--[a]	--
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	4,922	468,778	No
128-H-1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	152	1,617	No
128-H-1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,634	--[a]	--
128-H-1_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	49	--[a]	--
128-H-1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,720	24,423	No
128-H-1_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	14,071	744,854	No
128-H-1_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.6	--[a]	--
128-H-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	154	2.12E+06	No
128-H-1_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	4.3	118,992	No
128-H-1_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[b]	No
128-H-1_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[a]	--
128-H-1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.84E+07	2.12E+06	Yes
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	65,620	--[a]	--
128-H-1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	298,334	2.12E+06	No
128-H-1_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	30	15,447	No
128-H-1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	347	82,551	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
128-H-1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,942	1.58E+06	No
128-H-1_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	102	2.12E+06	No
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,742	2.00E+06[c]	No
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	19,397	2.00E+06[c]	No
128-H-1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,141	--[a]	--
128-H-1_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,831	2.12E+06	No
128-H-1_Shallow_4	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.5	11,282	No
128-H-1_Shallow_4	non-Rad	Acenaphthene	83-32-9	ug/kg	15	113,919	No
128-H-1_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	1.02E+07	--[a]	--
128-H-1_Shallow_4	non-Rad	Anthracene	120-12-7	ug/kg	1.3	2.12E+06	No
128-H-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.4	10,075	No
128-H-1_Shallow_4	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19	--[a]	--
128-H-1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5,365	107	Yes
128-H-1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	95,142	2.12E+06	No
128-H-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.9	--[a]	--
128-H-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[a]	--
128-H-1_Shallow_4	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[a]	--
128-H-1_Shallow_4	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3	--[a]	--
128-H-1_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	309	--[a]	--
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	4,462	468,778	No
128-H-1_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	163	1,617	No
128-H-1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	14,369	--[a]	--
128-H-1_Shallow_4	non-Rad	Chrysene	218-01-9	ug/kg	11	--[a]	--
128-H-1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	6,783	24,423	No
128-H-1_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	13,865	744,854	No
128-H-1_Shallow_4	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[a]	--
128-H-1_Shallow_4	non-Rad	Fluoranthene	206-44-0	ug/kg	28	2.12E+06	No
128-H-1_Shallow_4	non-Rad	Fluorene	86-73-7	ug/kg	4.3	118,992	No
128-H-1_Shallow_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	156	6,000[b]	No
128-H-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.3	--[a]	--
128-H-1_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	2.12E+06	Yes
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	44,536	--[a]	--
128-H-1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	319,234	2.12E+06	No
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1,021	15,447	No
128-H-1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	414	82,551	No
128-H-1_Shallow_4	non-Rad	Naphthalene	91-20-3	ug/kg	6.6	9,481	No
128-H-1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	11,655	1.58E+06	No
128-H-1_Shallow_4	non-Rad	Pyrene	129-00-0	ug/kg	18	2.12E+06	No
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	10,082	2.00E+06[d]	No
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	48,270	2.00E+06[d]	No
128-H-1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	51,297	--[a]	--
128-H-1_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	40,798	2.12E+06	No
128-H-1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	7.61E+06	--[a]	--
128-H-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,785	107	Yes
128-H-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	66,201	2.12E+06	No
128-H-1_Shallow_5	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[a]	--
128-H-1_Shallow_5	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13	--[a]	--
128-H-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	122	--[a]	--
128-H-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	75	707,933	No
128-H-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,534	468,778	No
128-H-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	74	1,617	No
128-H-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	12,741	--[a]	--
128-H-1_Shallow_5	non-Rad	Chrysene	218-01-9	ug/kg	15	--[a]	--
128-H-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	6,508	24,423	No
128-H-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	16,559	744,854	No
128-H-1_Shallow_5	non-Rad	Fluoranthene	206-44-0	ug/kg	23	2.12E+06	No
128-H-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	917	6,000[b]	No
128-H-1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	1.57E+07	2.12E+06	Yes
128-H-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	6,674	--[a]	--
128-H-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	270,578	2.12E+06	No
128-H-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	23	15,447	No
128-H-1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	490	82,551	No
128-H-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	11,527	1.58E+06	No
128-H-1_Shallow_5	non-Rad	Pyrene	129-00-0	ug/kg	30	2.12E+06	No
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	160,000	2.00E+06[d]	No
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	357,773	2.00E+06[c]	No
128-H-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	40,807	--[a]	--
128-H-1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	36,178	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Acenaphthene	83-32-9	ug/kg	48	113,919	No
128-H-1_Staging pile area footprint_2	non-Rad	Aluminum	7429-90-5	ug/kg	1.11E+07	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Anthracene	120-12-7	ug/kg	2.4	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.8	10,075	No
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Arsenic	7440-38-2	ug/kg	54,142	107	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Barium	7440-39-3	ug/kg	88,760	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	17	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.4	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Beryllium	7440-41-7	ug/kg	338	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Boron	7440-42-8	ug/kg	3,306	468,778	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
128-H-1_Staging pile area footprint_2	non-Rad	Cadmium	7440-43-9	ug/kg	148	1,617	No
128-H-1_Staging pile area footprint_2	non-Rad	Chromium	7440-47-3	ug/kg	15,220	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Chrysene	218-01-9	ug/kg	10	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,810	24,423	No
128-H-1_Staging pile area footprint_2	non-Rad	Copper	7440-50-8	ug/kg	13,202	744,854	No
128-H-1_Staging pile area footprint_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Fluoranthene	206-44-0	ug/kg	56	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Fluorene	86-73-7	ug/kg	12	118,992	No
128-H-1_Staging pile area footprint_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	2.12E+06	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Lead	7439-92-1	ug/kg	124,843	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Manganese	7439-96-5	ug/kg	339,768	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Mercury	7439-97-6	ug/kg	67	15,447	No
128-H-1_Staging pile area footprint_2	non-Rad	Molybdenum	7439-98-7	ug/kg	276	82,551	No
128-H-1_Staging pile area footprint_2	non-Rad	Nickel	7440-02-0	ug/kg	12,076	1.58E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Pyrene	129-00-0	ug/kg	33	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	23,047	2.00E+06[d]	No
128-H-1_Staging pile area footprint_2	non-Rad	Vanadium	7440-62-2	ug/kg	46,690	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Zinc	7440-66-6	ug/kg	43,441	2.12E+06	No
128-H-1_Staging pile area footprint_6	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--[a]	--
128-H-1_Staging pile area footprint_6	non-Rad	Arsenic	7440-38-2	ug/kg	3,730	107	Yes
128-H-1_Staging pile area footprint_6	non-Rad	Barium	7440-39-3	ug/kg	89,946	2.12E+06	No
128-H-1_Staging pile area footprint_6	non-Rad	Beryllium	7440-41-7	ug/kg	272	--[a]	--
128-H-1_Staging pile area footprint_6	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	707,933	No
128-H-1_Staging pile area footprint_6	non-Rad	Boron	7440-42-8	ug/kg	1,747	468,778	No
128-H-1_Staging pile area footprint_6	non-Rad	Cadmium	7440-43-9	ug/kg	91	1,617	No
128-H-1_Staging pile area footprint_6	non-Rad	Chromium	7440-47-3	ug/kg	14,174	--[a]	--
128-H-1_Staging pile area footprint_6	non-Rad	Cobalt	7440-48-4	ug/kg	7,326	24,423	No
128-H-1_Staging pile area footprint_6	non-Rad	Copper	7440-50-8	ug/kg	14,851	744,854	No
128-H-1_Staging pile area footprint_6	non-Rad	Diethylphthalate	84-66-2	ug/kg	35	85,592	No
128-H-1_Staging pile area footprint_6	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	233	6,000[b]	No
128-H-1_Staging pile area footprint_6	non-Rad	Iron	7439-89-6	ug/kg	2.04E+07	2.12E+06	Yes
128-H-1_Staging pile area footprint_6	non-Rad	Lead	7439-92-1	ug/kg	5,852	--[a]	--
128-H-1_Staging pile area footprint_6	non-Rad	Manganese	7439-96-5	ug/kg	333,857	2.12E+06	No
128-H-1_Staging pile area footprint_6	non-Rad	Mercury	7439-97-6	ug/kg	7.5	15,447	No
128-H-1_Staging pile area footprint_6	non-Rad	Nickel	7440-02-0	ug/kg	13,384	1.58E+06	No
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,700	2.00E+06[c]	No
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,494	2.00E+06[d]	No
128-H-1_Staging pile area footprint_6	non-Rad	Vanadium	7440-62-2	ug/kg	40,715	--[a]	--
128-H-1_Staging pile area footprint_6	non-Rad	Zinc	7440-66-6	ug/kg	40,935	2.12E+06	No
128-H-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.05E+06	--[a]	--
128-H-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,500	941	Yes
128-H-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	82,600	1.87E+07	No
128-H-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	6.25E+06	No
128-H-2_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	22	288,181	No
128-H-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,800	--[a]	--
128-H-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,300	6.58E+06	No
128-H-2_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	36	1.09E+06	No
128-H-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	6,000[b]	No
128-H-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	1.87E+07	Yes
128-H-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,900	--[a]	--
128-H-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	329,000	1.87E+07	No
128-H-2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	4.0	154	No
128-H-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,100	1.39E+07	No
128-H-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,200	106,892	No
128-H-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	4,100	2.00E+06[d]	No
128-H-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,500	--[a]	--
128-H-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	42,000	1.87E+07	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
128-H-3_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.7	126,192	No
128-H-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.75E+06	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	11,000	1,192	Yes
128-H-3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	81,800	2.37E+07	No
128-H-3_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	18	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	360	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	7.92E+06	No
128-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,700	5.24E+06	No
128-H-3_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	28	365,064	No
128-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,900	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	20	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,400	273,184	No
128-H-3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,800	8.33E+06	No
128-H-3_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	120	1.38E+06	No
128-H-3_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	24	2.37E+07	No
128-H-3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.36E+07	2.37E+07	No
128-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	94,100	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	2.37E+07	No
128-H-3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	40	172,785	No
128-H-3_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	6.0	195	No
128-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	923,386	No
128-H-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,400	1.77E+07	No
128-H-3_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	28	2.37E+07	No
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,000	2.00E+06[d]	No
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,000	2.00E+06[d]	No
128-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	60,500	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,800	2.37E+07	No
1607-H1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--[a]	--
1607-H1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	420	92,347	No
1607-H1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	14,321	322	Yes
1607-H1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	79,109	6.42E+06	No
1607-H1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56	--[a]	--
1607-H1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	267	--[a]	--
1607-H1_Overburden	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.4	15	No
1607-H1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	282	2.14E+06	No
1607-H1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	3,760	1.42E+06	No
1607-H1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	108	4,892	No
1607-H1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,120	--[a]	--
1607-H1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,260	73,877	No
1607-H1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,456	2.25E+06	No
1607-H1_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	2.0	24	No
1607-H1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	71	6.42E+06	No
1607-H1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,465	6.42E+06	No
1607-H1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	6,000[b]	No
1607-H1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	6.42E+06	Yes
1607-H1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	60,452	--[a]	--
1607-H1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	299,830	6.42E+06	No
1607-H1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	46,727	No
1607-H1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	449	249,712	No
1607-H1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,144	4.77E+06	No
1607-H1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	57,506	413,638	No
1607-H1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,996	91,920	No
1607-H1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	96	6.42E+06	No
1607-H1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	979	36,619	No
1607-H1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,112	--[c]	--
1607-H1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	46,454	--[a]	--
1607-H1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	39,273	6.42E+06	No
1607-H1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--[a]	--
1607-H1_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	--[c]	--
1607-H1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	--[c]	--
1607-H1_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.0	34,126	No
1607-H1_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.3	--[a]	--
1607-H1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.88E+06	--[a]	--
1607-H1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	208	92,347	No
1607-H1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	27	30,476	No
1607-H1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--[a]	--
1607-H1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9,508	322	Yes
1607-H1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	80,403	6.42E+06	No
1607-H1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	73	--[a]	--
1607-H1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	68	--[a]	--
1607-H1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--[a]	--
1607-H1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	268	--[a]	--
1607-H1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	211	2.14E+06	No
1607-H1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,052	1.42E+06	No
1607-H1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	127	4,892	No
1607-H1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,089	--[a]	--
1607-H1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	78	--[a]	--
1607-H1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,042	73,877	No
1607-H1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,043	2.25E+06	No
1607-H1_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	3.9	24	No
1607-H1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	253	373,445	No
1607-H1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	171	6.42E+06	No
1607-H1_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	4,029	6.42E+06	No
1607-H1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	137	6,000[b]	No
1607-H1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	6.42E+06	Yes
1607-H1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	25,361	--[a]	--
1607-H1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	315,367	6.42E+06	No
1607-H1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	97	46,727	No
1607-H1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	383	249,712	No
1607-H1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,940	4.77E+06	No
1607-H1_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	12,618	413,638	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
1607-H1_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,747	91,920	No
1607-H1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	233	6.42E+06	No
1607-H1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,781	--[c]	--
1607-H1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	--[a]	--
1607-H1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,328	6.42E+06	No
1607-H1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--[a]	--
1607-H1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.077	--[a]	--
1607-H1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.34	--[a]	--
1607-H1_Shallow	Rad	Tritium	10028-17-8	pCi/g	7.4	297	No
1607-H1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	--[c]	--
1607-H1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.60	--[c]	--
1607-H1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.87E+06	--[a]	--
1607-H1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	322	Yes
1607-H1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	40,500	6.42E+06	No
1607-H1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	55	4,892	No
1607-H1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,800	--[a]	--
1607-H1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,800	73,877	No
1607-H1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	2.25E+06	No
1607-H1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.24E+07	6.42E+06	Yes
1607-H1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,700	--[a]	--
1607-H1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	228,000	6.42E+06	No
1607-H1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,200	4.77E+06	No
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	840	91,920	No
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	570	91,920	No
1607-H1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	0.043	--[c]	--
1607-H1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	33,500	--[a]	--
1607-H1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	29,900	6.42E+06	No
1607-H1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.27	--[c]	--
1607-H2_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	174	Yes
1607-H2_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,100	--[a]	--
1607-H2_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	--[a]	--
1607-H2_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	62	25,214	No
1607-H2_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	23	3.47E+06	No
1607-H2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	15,800	174	Yes
1607-H2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	100	--[a]	--
1607-H2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	130	--[a]	--
1607-H2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	76	--[a]	--
1607-H2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	94	--[a]	--
1607-H2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,300	--[a]	--
1607-H2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	120	--[a]	--
1607-H2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	230	3.47E+06	No
1607-H2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[a]	--
1607-H2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	54,900	--[a]	--
1607-H2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	220	3.47E+06	No
1607-H2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,116	--[c]	--
1607-H2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.038	--[a]	--
1607-H2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	--[c]	--
1607-H2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	--[c]	--
1607-H2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	160	16,445	No
1607-H2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	7,132	174	Yes
1607-H2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	24	1.16E+06	No
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	204,000	--[a]	--
1607-H2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	110	201,511	No
1607-H2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	37,629	--[a]	--
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2,591	25,214	No
1607-H2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,242	--[c]	--
1607-H2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.073	--[a]	--
1607-H2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.92	--[c]	--
1607-H2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.75	--[c]	--
1607-H2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	174	Yes
1607-H2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,900	--[a]	--
1607-H2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,500	--[a]	--
1607-H2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	25,214	No
1607-H3_Overburden	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.0	21,630	No
1607-H3_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	18	125,274	No
1607-H3_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5	--[a]	--
1607-H3_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	18	1.26E+06	No
1607-H3_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.07E+06	--[a]	--
1607-H3_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	1.7	2.36E+07	No
1607-H3_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15	111,874	No
1607-H3_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[a]	--
1607-H3_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,302	1,183	Yes
1607-H3_Overburden	non-Rad	Barium	7440-39-3	ug/kg	97,722	2.36E+07	No
1607-H3_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.2	--[a]	--
1607-H3_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[a]	--
1607-H3_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.7	--[a]	--
1607-H3_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--[a]	--
1607-H3_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	261	--[a]	--
1607-H3_Overburden	non-Rad	Boron	7440-42-8	ug/kg	4,725	5.21E+06	No
1607-H3_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	139	17,960	No
1607-H3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	49,818	--[a]	--
1607-H3_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	12	--[a]	--
1607-H3_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,300	271,197	No
1607-H3_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,980	8.27E+06	No
1607-H3_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.7	--[a]	--
1607-H3_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	3.2	107,275	No
1607-H3_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	22	2.36E+07	No
1607-H3_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	1.4	1.32E+06	No
1607-H3_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	992	2.36E+07	No
1607-H3_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	129	6,000[b]	No
1607-H3_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.0	--[a]	--
1607-H3_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.94E+07	2.36E+07	No

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
1607-H3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	21,505	--[a]	--
1607-H3_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306,125	2.36E+07	No
1607-H3_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	171,529	No
1607-H3_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	11	193	No
1607-H3_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	365	916,671	No
1607-H3_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	103	105,276	No
1607-H3_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	21,414	1.75E+07	No
1607-H3_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	43,234	1.52E+06	No
1607-H3_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,068	337,429	No
1607-H3_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	16	2.36E+07	No
1607-H3_Overburden	non-Rad	Silver	7440-22-4	ug/kg	840	355,445	No
1607-H3_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51,141	--[a]	--
1607-H3_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51,058	2.36E+07	No
1607-H3_Shallow_1	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	219	43,192	No
1607-H3_Shallow_1	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	1.6	21,630	No
1607-H3_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.8	125,274	No
1607-H3_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	10	--[a]	--
1607-H3_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	409	1.26E+06	No
1607-H3_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.01E+06	--[a]	--
1607-H3_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	7.8	2.36E+07	No
1607-H3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	389	338,997	No
1607-H3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	11	111,874	No
1607-H3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19	--[a]	--
1607-H3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,240	1,183	Yes
1607-H3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	70,120	2.36E+07	No
1607-H3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[a]	--
1607-H3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.6	--[a]	--
1607-H3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.7	--[a]	--
1607-H3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.2	--[a]	--
1607-H3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	245	--[a]	--
1607-H3_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	4.6	57	No
1607-H3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,945	5.21E+06	No
1607-H3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	121	17,960	No
1607-H3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,104	--[a]	--
1607-H3_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	43	--[a]	--
1607-H3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,690	271,197	No
1607-H3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,285	8.27E+06	No
1607-H3_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.3	--[a]	--
1607-H3_Shallow_1	non-Rad	Endosulfan i	959-98-8	ug/kg	3.0	107,275	No
1607-H3_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	69	2.36E+07	No
1607-H3_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	76	1.32E+06	No
1607-H3_Shallow_1	non-Rad	Fluoride	16984-48-8	ug/kg	1,326	2.36E+07	No
1607-H3_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.87E+07	2.36E+07	No
1607-H3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	9,027	--[a]	--
1607-H3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	287,009	2.36E+07	No
1607-H3_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	9.0	171,529	No
1607-H3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	441	916,671	No
1607-H3_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	169	105,276	No
1607-H3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,739	1.75E+07	No
1607-H3_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	6,544	1.52E+06	No
1607-H3_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,980	337,429	No
1607-H3_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	22	2.36E+07	No
1607-H3_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	300	134,425	No
1607-H3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	51,055	--[a]	--
1607-H3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	58,150	2.36E+07	No
1607-H3_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	10	1.26E+06	No
1607-H3_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.71E+06	--[a]	--
1607-H3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,275	1,183	Yes
1607-H3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	50,645	2.36E+07	No
1607-H3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	197	--[a]	--
1607-H3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,136	5.21E+06	No
1607-H3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	93	17,960	No
1607-H3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,587	--[a]	--
1607-H3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,450	271,197	No
1607-H3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,436	8.27E+06	No
1607-H3_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	1,005	2.36E+07	No
1607-H3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	133	6,000[b]	No
1607-H3_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.55E+07	2.36E+07	No
1607-H3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,086	--[a]	--
1607-H3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	256,331	2.36E+07	No
1607-H3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	16	171,529	No
1607-H3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	268	916,671	No
1607-H3_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	7.6	105,276	No
1607-H3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,188	1.75E+07	No
1607-H3_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	2,497	1.52E+06	No
1607-H3_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	541	337,429	No
1607-H3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	42,063	--[a]	--
1607-H3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	33,110	2.36E+07	No
1607-H4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	100	2.09E+07	No
1607-H4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	280	3.89E+08	No
1607-H4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	7,500	19,524	No
1607-H4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	365	--[a]	--
1607-H4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	381	--[a]	--
1607-H4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	356	--[a]	--
1607-H4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	355	--[a]	--
1607-H4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	32	1.30E+08	No
1607-H4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	132,367	No
1607-H4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,200	--[a]	--
1607-H4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	389	--[a]	--
1607-H4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	22	--[a]	--
1607-H4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	42	652,088	No
1607-H4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,300	3.89E+08	No
1607-H4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	93	2.18E+07	No
1607-H4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	180	--[a]	--
1607-H4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	44,100	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
1607-H4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	40	2.83E+06	No
1607-H4_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	25	1.74E+06	No
1607-H4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,200	3.89E+08	No
1607-H4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,587	--[c]	--
1607-H4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.14	--[a]	--
1607-H4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[c]	--
1607-H4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	--[c]	--
600-151_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.70	36,359	No
600-151_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.89	--[a]	--
600-151_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	6.8	71,093	No
600-151_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--[a]	--
600-151_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	5.4	6.84E+06	No
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	31,816	343	Yes
600-151_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	100,704	6.84E+06	No
600-151_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75	--[a]	--
600-151_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[a]	--
600-151_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	46	--[a]	--
600-151_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	23	--[a]	--
600-151_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	178	--[a]	--
600-151_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	4,859	1.51E+06	No
600-151_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	286	5,213	No
600-151_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,125	--[a]	--
600-151_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	59	--[a]	--
600-151_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,921	78,712	No
600-151_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	22,587	2.40E+06	No
600-151_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	23	--[a]	--
600-151_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	125	6.84E+06	No
600-151_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	6.7	383,495	No
600-151_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	264	6,000[b]	No
600-151_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--[a]	--
600-151_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.02E+07	6.84E+06	Yes
600-151_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	126,984	--[a]	--
600-151_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	352,409	6.84E+06	No
600-151_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	15	49,784	No
600-151_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	56	No
600-151_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	470	266,052	No
600-151_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	13,000	5.09E+06	No
600-151_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	159	6.84E+06	No
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	940	39,015	No
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,454	2.00E+06[d]	No
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	30,037	2.00E+06[d]	No
600-151_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	41,178	--[a]	--
600-151_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	64,969	6.84E+06	No
600-151_Shallow_2	non-Rad	2-Butanone	78-93-3	ug/kg	6.9	50,052	No
600-151_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.47	36,359	No
600-151_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	30	71,093	No
600-151_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	9.99E+06	--[a]	--
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	59,606	343	Yes
600-151_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	93,206	6.84E+06	No
600-151_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	24	--[a]	--
600-151_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	25	--[a]	--
600-151_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	25	--[a]	--
600-151_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[a]	--
600-151_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	129	--[a]	--
600-151_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,271	1.51E+06	No
600-151_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	596	5,213	No
600-151_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,221	--[a]	--
600-151_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	29	--[a]	--
600-151_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,500	78,712	No
600-151_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,468	2.40E+06	No
600-151_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	60	6.84E+06	No
600-151_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	6.84E+06	Yes
600-151_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	266,765	--[a]	--
600-151_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	359,399	6.84E+06	No
600-151_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	13	49,784	No
600-151_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	11	56	No
600-151_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	330	266,052	No
600-151_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,536	5.09E+06	No
600-151_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	72	6.84E+06	No
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,660	2.00E+06[d]	No
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,646	2.00E+06[d]	No
600-151_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	38,407	--[a]	--
600-151_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	47,156	6.84E+06	No
600-151_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.4	36,359	No
600-151_Shallow_3	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.91	--[a]	--
600-151_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	--[a]	--
600-151_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	6.7	6.84E+06	No
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	53,961	343	Yes
600-151_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	215,867	6.84E+06	No
600-151_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38	--[a]	--
600-151_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	39	--[a]	--
600-151_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	31	--[a]	--
600-151_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[a]	--
600-151_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	137	--[a]	--
600-151_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	2,612	1.51E+06	No
600-151_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	511	5,213	No
600-151_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,175	--[a]	--
600-151_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	45	--[a]	--
600-151_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,686	78,712	No
600-151_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	16,047	2.40E+06	No
600-151_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	69	6.84E+06	No
600-151_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	9.0	383,495	No
600-151_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[a]	--

Table 7-7. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
600-151_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	6.84E+06	Yes
600-151_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	276,283	--[a]	--
600-151_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	323,716	6.84E+06	No
600-151_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	29	49,784	No
600-151_Shallow_3	non-Rad	Methylene chioride	75-09-2	ug/kg	3.4	56	No
600-151_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	370	266,052	No
600-151_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	18	30,555	No
600-151_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,315	5.09E+06	No
600-151_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	93	6.84E+06	No
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	4,406	2.00E+06[d]	No
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	17,034	2.00E+06[d]	No
600-151_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	38,454	--[a]	--
600-151_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	62,833	6.84E+06	No
600-152_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.29E+06	--[a]	--
600-152_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	15	3.89E+08	No
600-152_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,941	19,524	No
600-152_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,843	3.89E+08	No
600-152_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	13	--[a]	--
600-152_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	15	--[a]	--
600-152_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13	--[a]	--
600-152_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.6	--[a]	--
600-152_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	279	--[a]	--
600-152_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,785	8.59E+07	No
600-152_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	81	296,335	No
600-152_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,730	--[a]	--
600-152_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	10	--[a]	--
600-152_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,104	4.47E+06	No
600-152_Shallow	non-Rad	Copper	7440-50-8	ug/kg	23,251	1.36E+08	No
600-152_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.0	--[a]	--
600-152_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	39	3.89E+08	No
600-152_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.7	2.18E+07	No
600-152_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	10	--[a]	--
600-152_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.78E+07	3.89E+08	No
600-152_Shallow	non-Rad	Lead	7439-92-1	ug/kg	13,578	--[a]	--
600-152_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	299,188	3.89E+08	No
600-152_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13	2.83E+06	No
600-152_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	280	1.51E+07	No
600-152_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,630	2.89E+08	No
600-152_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	18	3.89E+08	No
600-152_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,512	--[a]	--
600-152_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,243	3.89E+08	No
600-152_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.27	156,531	No

Notes:

a. The calculated soil screening level for the analyte is considered non-representative because breakthrough was not simulated to occur within 1000 years in more than one of the set of representative stratigraphic columns, where breakthrough is defined as a mass concentration exceeding 0.0001 µg/L for nonradionuclides or an activity concentration exceeding

b. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

c. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC. However, uranium has been previously identified in association with the 183-H Solar Evaporation Basin as an indicator parameter for that RCRA site. Uranium has been detected above the RCRA permit levels and was detected above the DWS in 2012 in one location. While the analyte does not constitute a groundwater risk, it is being carried forward into the FS as a COC for the area local to 183-H only, based on detections in groundwater.

d. The soil screening level for Total Petroleum Hydrocarbons is a default screening level obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."

-- = Not applicable or no value.

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-17_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,395	638,019	No
100-H-17_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,015	--[a]	--
100-H-17_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	471	6,000[b]	No
100-H-17_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,489	--[a]	--
100-H-17_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,853	--[c]	--
100-H-17_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.26	--[a]	--
100-H-17_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.50	1,989	No
100-H-17_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	--[c]	--
100-H-17_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	--[c]	--
100-H-21_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	6,550	5.02E+07	No
100-H-21_Deep	non-Rad	Chromium	7440-47-3	ug/kg	13,599	--[a]	--
100-H-21_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,472	6,000[b]	No
100-H-21_Deep	non-Rad	Lead	7439-92-1	ug/kg	17,593	--[a]	--
100-H-21_Deep	non-Rad	Mercury	7439-97-6	ug/kg	64	16,981	No
100-H-21_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,644	--[c]	--
100-H-21_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.4	--[a]	--
100-H-21_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.28	--[a]	--
100-H-21_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.2	--[a]	--
100-H-21_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.41	--[a]	--
100-H-21_Deep	Rad	Nickel-63	13981-37-8	pCi/g	10	1.70E+06	No
100-H-21_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.076	--[a]	--
100-H-21_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	156,531	No
100-H-21_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	--[c]	--
100-H-21_Deep	Rad	Uranium-238	U-238	pCi/g	0.55	--[c]	--
100-H-21_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	11,453	5.02E+07	No
100-H-21_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	14,234	--[a]	--
100-H-21_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	813	6,000[b]	No
100-H-21_Overburden	non-Rad	Lead	7439-92-1	ug/kg	36,426	--[a]	--
100-H-21_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	16,981	No
100-H-21_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,342	--[c]	--
100-H-21_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
100-H-21_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[a]	--
100-H-21_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	--[a]	--
100-H-21_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[c]	--
100-H-21_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.051	--[c]	--
100-H-21_Overburden	Rad	Uranium-238	U-238	pCi/g	0.45	--[c]	--
100-H-21_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	13,301	5.02E+07	No
100-H-21_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	14,826	--[a]	--
100-H-21_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	487	6,000[b]	No
100-H-21_Shallow	non-Rad	Lead	7439-92-1	ug/kg	40,132	--[a]	--
100-H-21_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,473	--[c]	--
100-H-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.24	--[a]	--
100-H-21_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[a]	--
100-H-21_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	--[a]	--
100-H-21_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.075	--[a]	--
100-H-21_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	0.63	501	No
100-H-21_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[c]	--
100-H-21_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	--[c]	--
100-H-24_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	69	--[a]	--
100-H-24_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,164	582,095	No
100-H-28:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	22	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.21E+07	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	5.02E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	540,000	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.2	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	58	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	530	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	66,400	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,000	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	4.3	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,000	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	22,700	1.92E+06	No
100-H-28:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.2	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	7.2	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	6.9	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	2.58E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,700	--[a]	--
100-H-28:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	30	16,981	No
100-H-28:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	23	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	17,200	1.50E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	8.3	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	--[d]	--
100-H-28:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,200	2.25E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.85E+06	--[a]	--
100-H-28:6_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	200	--[d]	--
100-H-28:6_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,300	5.02E+07	No
100-H-28:6_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	75,800	--[d]	--
100-H-28:6_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	250	--[d]	--
100-H-28:6_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,300	--[d]	--
100-H-28:6_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	14,817	No
100-H-28:6_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,800	--[a]	--
100-H-28:6_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	--[d]	--
100-H-28:6_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	1.92E+06	No
100-H-28:6_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	2.58E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	31,400	--[a]	--
100-H-28:6_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	287,000	--[d]	--
100-H-28:6_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	10	16,981	No

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-28:6_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	430	--[d]	--
100-H-28:6_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,400	1.50E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,200	--[d]	--
100-H-28:6_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,300	2.25E+08	No
100-H-3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	9.60E+06	--[a]	--
100-H-3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.0	590,694	No
100-H-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13	--[a]	--
100-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	14,689	5.02E+07	No
100-H-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	87,047	--[d]	--
100-H-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	70	--[d]	--
100-H-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	71	--[d]	--
100-H-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	61	--[d]	--
100-H-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	63	--[d]	--
100-H-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	342	--[d]	--
100-H-3_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.5	--[d]	--
100-H-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,684	--[d]	--
100-H-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	242	14,817	No
100-H-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	17,525	--[a]	--
100-H-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	85	--[d]	--
100-H-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,489	--[d]	--
100-H-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,046	1.92E+06	No
100-H-3_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	4.9	509	No
100-H-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	138	--[d]	--
100-H-3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	2.58E+08	No
100-H-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	47,557	--[a]	--
100-H-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,799	--[d]	--
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	257	16,981	No
100-H-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	453	--[d]	--
100-H-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	14,736	1.50E+08	No
100-H-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	143	--[d]	--
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	164,000	--[d]	--
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,682	--[d]	--
100-H-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,985	--[d]	--
100-H-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,349	2.25E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	--[a]	--
100-H-35_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	5,000	5.02E+07	No
100-H-35_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	99,000	--[d]	--
100-H-35_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	371	--[d]	--
100-H-35_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	2,630	--[d]	--
100-H-35_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	172	14,817	No
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	20,700	--[a]	--
100-H-35_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,590	--[d]	--
100-H-35_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	15,100	1.92E+06	No
100-H-35_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.02E+07	2.58E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	5,880	--[a]	--
100-H-35_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	322,000	--[d]	--
100-H-35_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	328	--[d]	--
100-H-35_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	17,100	1.50E+08	No
100-H-35_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,600	--[d]	--
100-H-35_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	47,400	2.25E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	9.82E+06	--[a]	--
100-H-35_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,720	5.02E+07	No
100-H-35_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	86,300	--[d]	--
100-H-35_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	330	--[d]	--
100-H-35_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	1,930	--[d]	--
100-H-35_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	114	14,817	No
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	20,900	--[a]	--
100-H-35_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	--[d]	--
100-H-35_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15,300	1.92E+06	No
100-H-35_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	2.58E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,500	--[a]	--
100-H-35_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	309,000	--[d]	--
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	102	16,981	No
100-H-35_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	428	--[d]	--
100-H-35_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	18,600	1.50E+08	No
100-H-35_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	1,280	--[c]	--
100-H-35_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	41,600	--[d]	--
100-H-35_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	48,000	2.25E+08	No
100-H-35_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.76	--[c]	--
100-H-35_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	0.058	--[c]	--
100-H-35_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.61	--[c]	--
100-H-35_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.20E+06	--[a]	--
100-H-35_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	18,500	5.02E+07	No
100-H-35_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	62,600	--[d]	--
100-H-35_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	200	--[d]	--
100-H-35_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	1,100	--[d]	--
100-H-35_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	154	14,817	No
100-H-35_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	14,800	--[a]	--
100-H-35_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	--[d]	--
100-H-35_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	13,400	1.92E+06	No
100-H-35_Shallow_Focused_3	non-Rad	Iron	7439-89-6	ug/kg	1.60E+07	2.58E+08	No
100-H-35_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	25,200	--[a]	--
100-H-35_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	253,000	--[d]	--
100-H-35_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	323	--[d]	--
100-H-35_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	13,700	1.50E+08	No
100-H-35_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	43,500	--[d]	--
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	94,200	2.25E+08	No
100-H-37_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.60E+06	--[a]	--
100-H-37_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	13,000	534,103	No
100-H-37_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	71,000	--[d]	--
100-H-37_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	970	--[d]	--
100-H-37_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	82	158	No
100-H-37_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	--[a]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-37_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	--[d]	--
100-H-37_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,000	20,416	No
100-H-37_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	2.74E+06	Yes
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	54,000	--[a]	--
100-H-37_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	--[d]	--
100-H-37_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	19	181	No
100-H-37_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,200	--[d]	--
100-H-37_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	1.60E+06	No
100-H-37_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,423	--[c]	--
100-H-37_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	43,000	--[d]	--
100-H-37_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,000	2.39E+06	No
100-H-37_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.017	--[a]	--
100-H-37_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.14	--[c]	--
100-H-37_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2	--[c]	--
100-H-4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.0	--[d]	--
100-H-4_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--[a]	--
100-H-4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	11	--[d]	--
100-H-4_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	3.0	207	No
100-H-4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.91E+06	--[a]	--
100-H-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	28	21,248	No
100-H-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13	--[a]	--
100-H-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,985	1.81E+06	No
100-H-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56,371	--[d]	--
100-H-4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.1	--[d]	--
100-H-4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.3	--[d]	--
100-H-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--[d]	--
100-H-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--[d]	--
100-H-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	251	--[d]	--
100-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,026	--[d]	--
100-H-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	125	533	No
100-H-4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.4	207	No
100-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,057	--[a]	--
100-H-4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.8	--[d]	--
100-H-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,639	--[d]	--
100-H-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,398	69,034	No
100-H-4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.7	--[d]	--
100-H-4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.0	--[d]	--
100-H-4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[d]	--
100-H-4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	9.28E+06	Yes
100-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	27,406	--[a]	--
100-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	263,324	--[d]	--
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	408	611	No
100-H-4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	5.7	--[d]	--
100-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	466	--[d]	--
100-H-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,166	5.41E+06	No
100-H-4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.8	--[d]	--
100-H-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	391	7,978	No
100-H-4_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,792	--[d]	--
100-H-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,620	--[c]	--
100-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	--[d]	--
100-H-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	36,149	8.09E+06	No
100-H-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.7	61,007	No
100-H-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[c]	--
100-H-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.88	--[c]	--
100-H-4_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.1	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	51	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.02E+06	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	420	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	14	21,248	No
100-H-4_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	73	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,800	1.81E+06	No
100-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	163,000	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	53	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	33	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	310	--[d]	--
100-H-4_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.4	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	27	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	19,400	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	260	533	No
100-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	17,500	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	41	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,900	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,300	69,034	No
100-H-4_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	17	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	49	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	4.2	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	20	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.24E+07	9.28E+06	Yes
100-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	27,400	--[a]	--
100-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	364,000	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	20	611	No
100-H-4_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.9	6,503	No
100-H-4_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	14	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	730	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,200	5.41E+06	No
100-H-4_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	46	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	410	7,978	No
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	188,000	--[d]	--
100-H-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	10,100	--[c]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51,500	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	62,500	8.09E+06	No
100-H-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.5	--[c]	--
100-H-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.3	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.96E+06	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	2,160	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,830	289,237	No
100-H-40_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	68,600	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	19	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	29	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	133	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.8	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	225	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,840	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	469	85	Yes
100-H-40_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	44	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,590	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,700	11,056	Yes
100-H-40_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.1	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	13	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	854	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.95E+07	1.49E+06	Yes
100-H-40_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,400	--[a]	--
100-H-40_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325,000	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	80	98	No
100-H-40_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	961	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,400	866,380	No
100-H-40_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	24	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	170,000	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,300	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,400	1.30E+06	No
100-H-41_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	501	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	344	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.83E+06	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	341	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,020	5.02E+07	No
100-H-41_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	86,200	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,110	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	971	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,270	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	396	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	298	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,110	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	14,817	No
100-H-41_Shallow_Focused	non-Rad	Carbazole	86-74-8	ug/kg	3,740	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,500	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	854	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,070	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	1.92E+06	No
100-H-41_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	123	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Dibenzofuran	132-64-9	ug/kg	1,630	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2,310	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	200	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	500	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	200	6,000[b]	No
100-H-41_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	593	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	2.58E+08	No
100-H-41_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,690	--[a]	--
100-H-41_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	281,000	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	237	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	622	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,300	1.50E+08	No
100-H-41_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1,530	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,900	--[d]	--
100-H-41_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,500	2.25E+08	No
100-H-45_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.06E+06	--[a]	--
100-H-45_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	288	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,430	5.02E+07	No
100-H-45_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	32,900	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	129	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	584	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	54	14,817	No
100-H-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,910	--[a]	--
100-H-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,180	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	10,500	1.92E+06	No
100-H-45_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.39E+07	2.58E+08	No
100-H-45_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,870	--[a]	--
100-H-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	227,000	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	262	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	7,780	1.50E+08	No
100-H-45_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,080	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	42,600	--[d]	--
100-H-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	28,200	2.25E+08	No
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.2	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	213	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.45E+06	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	13	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	332	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	52	590,694	No

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	48	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8.910	5.02E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	175,000	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	20	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	34	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	88	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	337	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	3.1	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,660	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	255	14,817	No
100-H-49:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,800	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	316	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,820	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	27,200	1.92E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	24	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	248	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	89	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	51	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	2.58E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,200	--[a]	--
100-H-49:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	291,000	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	13	16,981	No
100-H-49:2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.6	180,788	No
100-H-49:2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	489	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	115	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	16,600	1.50E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	4,400	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,360	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	41	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	547	191,245	No
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	63,800	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	121,000	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,900	--[d]	--
100-H-49:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	96,700	2.25E+08	No
100-H-49:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.6	--[a]	--
100-H-49:2_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
100-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	33	--[a]	--
100-H-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	5,900	3.04E+06	No
100-H-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	10,600	--[a]	--
100-H-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,200	--[a]	--
100-H-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,363	--[c]	--
100-H-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	--[c]	--
100-H-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.46	--[c]	--
100-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,586	3.04E+06	No
100-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,199	--[a]	--
100-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,871	--[a]	--
100-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	72	1,027	No
100-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,869	--[c]	--
100-H-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.072	--[a]	--
100-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.63	--[c]	--
100-H-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.18	--[c]	--
100-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	--[c]	--
100-H-50_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.70E+06	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,860	5.02E+07	No
100-H-50_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,000	--[d]	--
100-H-50_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	272	--[d]	--
100-H-50_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,420	--[d]	--
100-H-50_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	140	14,817	No
100-H-50_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,100	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,130	--[d]	--
100-H-50_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,700	1.92E+06	No
100-H-50_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.88E+07	2.58E+08	No
100-H-50_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	12,600	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	--[d]	--
100-H-50_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	34	16,981	No
100-H-50_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	361	--[d]	--
100-H-50_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,600	1.50E+08	No
100-H-50_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	257	221,801	No
100-H-50_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	53,200	--[d]	--
100-H-50_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,100	2.25E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	2.7	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.90E+06	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,940	5.02E+07	No
100-H-51:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	112,000	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.9	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.9	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.7	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.2	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	345	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,650	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	810	14,817	No
100-H-51:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.0	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,450	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,700	1.92E+06	No
100-H-51:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.3	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.32E+07	2.58E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,470	--[a]	--
100-H-51:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	504,000	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	16,981	No
100-H-51:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	401	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-51:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	1.50E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	276	221,801	No
100-H-51:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,300	--[d]	--
100-H-51:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,100	2.25E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	37	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.77E+06	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	0.92	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,470	5.02E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	199,000	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.0	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.8	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.0	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	383	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	26,300	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	133	14,817	No
100-H-51:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,400	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,800	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,000	1.92E+06	No
100-H-51:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.9	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	9.2	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	10	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	2.58E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,250	--[a]	--
100-H-51:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	440	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	16	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,700	1.50E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	221	221,801	No
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,900	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	47,700	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	38,600	--[d]	--
100-H-51:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,300	2.25E+08	No
100-H-53_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	7.4	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.76E+06	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,580	5.02E+07	No
100-H-53_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	52,300	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	61	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.5	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.8	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.3	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	231	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,310	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	397	14,817	No
100-H-53_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,900	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	22	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,500	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,800	1.92E+06	No
100-H-53_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.1	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	82	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.8	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,520	6,000[b]	No
100-H-53_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	24	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.66E+07	2.58E+08	No
100-H-53_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	35,900	--[a]	--
100-H-53_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300,000	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3,840	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	6.6	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,200	1.50E+08	No
100-H-53_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	42	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	35,100	--[d]	--
100-H-53_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,900	2.25E+08	No
100-H-53_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.84E+06	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	470	--[d]	--
100-H-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	2.07E+07	No
100-H-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	47,200	--[d]	--
100-H-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	330	--[d]	--
100-H-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	--[d]	--
100-H-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	110	6,097	No
100-H-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,700	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,800	--[d]	--
100-H-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	789,769	No
100-H-7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	1.06E+08	No
100-H-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,900	--[a]	--
100-H-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	264,000	--[d]	--
100-H-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	620	--[d]	--
100-H-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,900	6.19E+07	No
100-H-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,100	--[d]	--
100-H-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,200	9.25E+07	No
100-H-8_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.39E+06	--[a]	--
100-H-8_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	520	--[d]	--
100-H-8_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,300	2.09E+07	No
100-H-8_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	68,100	--[d]	--
100-H-8_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	440	--[d]	--
100-H-8_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,200	--[d]	--
100-H-8_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	340	6,174	No
100-H-8_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	--[a]	--
100-H-8_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	--[d]	--
100-H-8_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	23,400	799,641	No
100-H-8_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.45E+07	1.07E+08	No

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-8_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,800	--[a]	--
100-H-8_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	--[c]	--
100-H-8_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	310	7,076	No
100-H-8_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	930	--[d]	--
100-H-8_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,200	6.27E+07	No
100-H-8_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,900	--[d]	--
100-H-8_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	53,500	9.37E+07	No
116-H-1_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	6,282	819,685	No
116-H-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	23,100	--[a]	--
116-H-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	47	--[a]	--
116-H-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.1	--[a]	--
116-H-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	58	--[a]	--
116-H-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	6.6	--[a]	--
116-H-1_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	--[a]	--
116-H-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	--[a]	--
116-H-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	2,556	No
116-H-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,625	819,685	No
116-H-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,151	--[a]	--
116-H-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	6,000[b]	No
116-H-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,408	--[a]	--
116-H-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	--[a]	--
116-H-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.69	--[a]	--
116-H-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.15	--[a]	--
116-H-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	--[a]	--
116-H-1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.74	2,556	No
116-H-3_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,900	5.02E+07	No
116-H-3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,960	6,000[b]	No
116-H-3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	10	--[a]	--
116-H-3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.84	--[a]	--
116-H-3_Deep	Rad	Europium-152	14683-23-9	pCi/g	23	--[a]	--
116-H-3_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.1	--[a]	--
116-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8,300	5.02E+07	No
116-H-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.053	--[a]	--
116-H-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	--[a]	--
116-H-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.66	--[a]	--
116-H-5_Deep	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.1	--[d]	--
116-H-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	3.1	--[a]	--
116-H-5_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	6.91E+06	--[a]	--
116-H-5_Deep	non-Rad	Anthracene	120-12-7	ug/kg	5.1	--[d]	--
116-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.3	--[a]	--
116-H-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	5,372	3.32E+06	No
116-H-5_Deep	non-Rad	Barium	7440-39-3	ug/kg	67,200	--[d]	--
116-H-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38	--[d]	--
116-H-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	41	--[d]	--
116-H-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	51	--[d]	--
116-H-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	30	--[d]	--
116-H-5_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	104	--[d]	--
116-H-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	84	--[d]	--
116-H-5_Deep	non-Rad	Boron	7440-42-8	ug/kg	1,200	--[d]	--
116-H-5_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	88	979	No
116-H-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,448	--[a]	--
116-H-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	45	--[d]	--
116-H-5_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	6,209	--[d]	--
116-H-5_Deep	non-Rad	Copper	7440-50-8	ug/kg	15,413	126,843	No
116-H-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	69	--[d]	--
116-H-5_Deep	non-Rad	Fluoride	16984-48-8	ug/kg	1,092	--[d]	--
116-H-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	35	--[d]	--
116-H-5_Deep	non-Rad	Iron	7439-89-6	ug/kg	1.69E+07	1.70E+07	No
116-H-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	16,378	--[a]	--
116-H-5_Deep	non-Rad	Manganese	7439-96-5	ug/kg	254,139	--[d]	--
116-H-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	20	1,122	No
116-H-5_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	870	--[d]	--
116-H-5_Deep	non-Rad	Nickel	7440-02-0	ug/kg	11,568	9.94E+06	No
116-H-5_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	132,545	--[d]	--
116-H-5_Deep	non-Rad	Nitrite	14797-65-0	ug/kg	1,300	--[d]	--
116-H-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	23,726	--[d]	--
116-H-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	77	--[d]	--
116-H-5_Deep	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	81,718	--[d]	--
116-H-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,878	--[c]	--
116-H-5_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	46,454	--[d]	--
116-H-5_Deep	non-Rad	Zinc	7440-66-6	ug/kg	45,768	1.49E+07	No
116-H-5_Deep	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--[a]	--
116-H-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.59	--[a]	--
116-H-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	--[a]	--
116-H-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.3	--[a]	--
116-H-5_Deep	Rad	Nickel-63	13981-37-8	pCi/g	13	112,094	No
116-H-5_Deep	Rad	Tritium	10028-17-8	pCi/g	3.3	1,189	No
116-H-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	--[c]	--
116-H-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.63	--[c]	--
116-H-5_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45	--[d]	--
116-H-5_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	22	--[d]	--
116-H-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.51E+06	--[a]	--
116-H-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	36	--[d]	--
116-H-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	406	--[c]	--
116-H-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	5,801	3.32E+06	No
116-H-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	53,734	--[d]	--
116-H-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[d]	--
116-H-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	51	--[d]	--
116-H-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	52	--[d]	--
116-H-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	24	--[d]	--
116-H-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	173	--[d]	--
116-H-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-H-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,458	--[d]	--
116-H-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	68	979	No
116-H-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,538	--[a]	--
116-H-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	69	--[d]	--
116-H-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	5,586	--[d]	--
116-H-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,591	126,843	No
116-H-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.4	--[d]	--
116-H-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	130	--[d]	--
116-H-5_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	7.8	--[d]	--
116-H-5_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	799	--[d]	--
116-H-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	6,000[b]	No
116-H-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34	--[d]	--
116-H-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.68E+07	1.70E+07	No
116-H-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	16,326	--[a]	--
116-H-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	258,053	--[d]	--
116-H-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	275	--[d]	--
116-H-5_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	25	--[d]	--
116-H-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,808	9.94E+06	No
116-H-5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	9,911	--[d]	--
116-H-5_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	960	--[d]	--
116-H-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,151	--[d]	--
116-H-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	100	--[d]	--
116-H-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	156	12,640	No
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,200	--[d]	--
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,500	--[c]	--
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,996	--[d]	--
116-H-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,677	--[c]	--
116-H-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	44,444	--[d]	--
116-H-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,379	1.49E+07	No
116-H-5_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--[e]	--
116-H-5_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	1.4	--[a]	--
116-H-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	3.0	1,189	No
116-H-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[c]	--
116-H-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.56	--[c]	--
116-H-5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45	--[d]	--
116-H-5_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8	--[d]	--
116-H-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.18E+06	--[a]	--
116-H-5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.7	--[d]	--
116-H-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	378	--[d]	--
116-H-5_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.9	--[a]	--
116-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,405	3.32E+06	No
116-H-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,357	--[d]	--
116-H-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[d]	--
116-H-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[d]	--
116-H-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[d]	--
116-H-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.8	--[d]	--
116-H-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	202	--[d]	--
116-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,169	--[d]	--
116-H-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	80	979	No
116-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,831	--[a]	--
116-H-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	11	--[d]	--
116-H-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,335	--[d]	--
116-H-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,502	126,843	No
116-H-5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[d]	--
116-H-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	27	--[d]	--
116-H-5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.6	--[d]	--
116-H-5_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	903	--[d]	--
116-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60	6,000[b]	No
116-H-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.9	--[d]	--
116-H-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.87E+07	1.70E+07	Yes
116-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	14,110	--[a]	--
116-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	270,919	--[d]	--
116-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	18	1,122	No
116-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	280	--[d]	--
116-H-5_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	15	--[d]	--
116-H-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,834	9.94E+06	No
116-H-5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8,424	--[d]	--
116-H-5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,100	--[d]	--
116-H-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,266	--[d]	--
116-H-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	26	--[d]	--
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,600	--[d]	--
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,100	--[c]	--
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,314	--[d]	--
116-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,966	--[c]	--
116-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,734	--[d]	--
116-H-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,292	1.49E+07	No
116-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.0	--[e]	--
116-H-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	19	112,094	No
116-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4	10,346	No
116-H-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	4.1	1,189	No
116-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	--[c]	--
116-H-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.20	--[c]	--
116-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.66	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	11	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.3	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	7.33E+06	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	87	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15	39,041	No
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	10,280	3.32E+06	No
116-H-5_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	75,287	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	76	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	59	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	64	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	142	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	122	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2,700	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	112	979	No
116-H-5_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10,981	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	59	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,774	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	14,733	126,843	No
116-H-5_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	400	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	57	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoride	16984-48-8	ug/kg	1,166	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	42	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.78E+07	1.70E+07	Yes
116-H-5_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	45,682	--[a]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	280,936	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	12	1,122	No
116-H-5_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	330	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,771	9.94E+06	No
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	44,800	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	50,900	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	137	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,400	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	20,867	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,039	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	703	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	47,752	--[d]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	40,271	1.49E+07	No
116-H-5_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.068	--[a]	--
116-H-5_Staging Pile Area Footprint	Rad	Technetium-99	14133-76-7	pCi/g	0.81	33	No
116-H-5_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.23	--[c]	--
116-H-5_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.20	--[c]	--
116-H-7_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	94	925	No
116-H-7_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	256	--[a]	--
116-H-7_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,472	601,266	No
116-H-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	55,857	--[a]	--
116-H-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,795	6,000[b]	No
116-H-7_Deep	non-Rad	Lead	7439-92-1	ug/kg	9,132	--[a]	--
116-H-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,002	203	Yes
116-H-7_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,347	--[c]	--
116-H-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22	--[a]	--
116-H-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	6.5	--[a]	--
116-H-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	65	--[a]	--
116-H-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.7	--[a]	--
116-H-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	316	20,311	No
116-H-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.099	--[a]	--
116-H-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.86	--[a]	--
116-H-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.5	1,875	No
116-H-7_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[c]	--
116-H-7_Deep	Rad	Uranium-238	U-238	pCi/g	0.45	--[c]	--
116-H-7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	77	--[a]	--
116-H-7_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,172	601,266	No
116-H-7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,042	--[a]	--
116-H-7_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	590	6,000[b]	No
116-H-7_Overburden	non-Rad	Lead	7439-92-1	ug/kg	9,806	--[a]	--
116-H-7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,551	--[c]	--
116-H-7_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.10	--[a]	--
116-H-7_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.45	--[c]	--
116-H-7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.52	--[c]	--
116-H-7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	660	--[a]	--
116-H-7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,540	601,266	No
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,656	--[a]	--
116-H-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	958	6,000[b]	No
116-H-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	20,249	--[a]	--
116-H-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,583	--[c]	--
116-H-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
116-H-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.68	--[a]	--
116-H-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	--[c]	--
116-H-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	--[c]	--
116-H-9_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.65E+06	--[a]	--
116-H-9_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	435	--[d]	--
116-H-9_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	23	590,694	No
116-H-9_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.6	--[a]	--
116-H-9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,605	5.02E+07	No
116-H-9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,597	--[d]	--
116-H-9_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	272	--[d]	--
116-H-9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,253	--[d]	--
116-H-9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	100	14,817	No
116-H-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,945	--[a]	--
116-H-9_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,313	--[d]	--
116-H-9_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,904	1.92E+06	No
116-H-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	262	6,000[b]	No
116-H-9_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.82E+07	2.58E+08	No
116-H-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,609	--[a]	--
116-H-9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	286,352	--[d]	--
116-H-9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	15	16,951	No
116-H-9_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	243	--[d]	--
116-H-9_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,510	1.50E+08	No
116-H-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,072	--[c]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-H-9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	42,911	--[d]	--
116-H-9_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	37,067	2.25E+08	No
116-H-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.027	--[a]	--
116-H-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	--[e]	--
116-H-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.70	--[f]	--
118-H-1:1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	75	--[d]	--
118-H-1:1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.43E+06	--[a]	--
118-H-1:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	8.2	--[d]	--
118-H-1:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	489	--[d]	--
118-H-1:1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.5	2,784	No
118-H-1:1_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10	--[c]	--
118-H-1:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	5,698	236,663	No
118-H-1:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	101,322	--[d]	--
118-H-1:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	34	--[d]	--
118-H-1:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	57	--[d]	--
118-H-1:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	33	--[d]	--
118-H-1:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19	--[d]	--
118-H-1:1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	288	--[d]	--
118-H-1:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	10,532	--[d]	--
118-H-1:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	76	70	Yes
118-H-1:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,618	--[a]	--
118-H-1:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	51	--[d]	--
118-H-1:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,752	--[d]	--
118-H-1:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	16,317	9,047	Yes
118-H-1:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.6	--[d]	--
118-H-1:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	134	--[d]	--
118-H-1:1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	6.8	--[d]	--
118-H-1:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[d]	--
118-H-1:1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	1.22E+06	Yes
118-H-1:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	17,746	--[a]	--
118-H-1:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	344,387	--[d]	--
118-H-1:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	11	80	No
118-H-1:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	366	--[d]	--
118-H-1:1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	13	--[d]	--
118-H-1:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	13,289	708,901	No
118-H-1:1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,753	--[d]	--
118-H-1:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	117	--[d]	--
118-H-1:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	326	1,046	No
118-H-1:1_Overburden	non-Rad	Silver	7440-22-4	ug/kg	224	902	No
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,992	--[b]	--
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	15,814	--[d]	--
118-H-1:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,281	--[d]	--
118-H-1:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,523	1.06E+06	No
118-H-1:1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.4	--[a]	--
118-H-1:1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.061	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	2.5	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.57E+06	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	3.6	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,459	236,663	No
118-H-1:1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	49,873	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.8	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.3	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.1	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	181	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,456	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	50	70	No
118-H-1:1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,810	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	11	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	5,630	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,893	9,047	Yes
118-H-1:1_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.4	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	1.5	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.5	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	1.22E+06	Yes
118-H-1:1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	6,609	--[a]	--
118-H-1:1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	252,370	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	18	80	No
118-H-1:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	249	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	3.3	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,583	708,901	No
118-H-1:1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,340	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	36	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,000	1,046	No
118-H-1:1_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,315	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,653	--[d]	--
118-H-1:1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	33,577	1.06E+06	No
118-H-1:1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	1.9	--[a]	--
118-H-1:1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.17	--[a]	--
118-H-1:1_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	--[a]	--
118-H-1:1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.21	--[a]	--
118-H-1:1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.8	--[a]	--
118-H-1:1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	738	No
118-H-1:1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	3.4	85	No
118-H-1:1_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.8	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.69E+06	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	3.0	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	257	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.1	2,784	No
118-H-1:1_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,887	236,663	No

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-1:1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	51,004	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.1	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.3	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.7	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	182	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,763	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	114	70	Yes
118-H-1:1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,051	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	3.7	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,566	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,353	9,047	Yes
118-H-1:1_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	21	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	1.5	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.9	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.69E+07	1.22E+06	Yes
118-H-1:1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,641	--[a]	--
118-H-1:1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	254,153	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	57	80	No
118-H-1:1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	237	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,937	708,901	No
118-H-1:1_Shallow_2	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,950	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	9.2	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	3,880	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,883	--[d]	--
118-H-1:1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	34,227	1.06E+06	No
118-H-1:1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.8	--[a]	--
118-H-1:1_Shallow_2	Rad	Ceslum-137	10045-97-3	pCi/g	0.52	--[a]	--
118-H-1:1_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.11	--[a]	--
118-H-1:1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.26	--[a]	--
118-H-1:1_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	8.6	7,995	No
118-H-1:1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3	738	No
118-H-1:1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	4.0	85	No
118-H-1:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	6.9	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.20E+06	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	226	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	29	2,784	No
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	28	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,110	236,663	No
118-H-1:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	98,300	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.5	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	5.3	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.7	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	206	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,160	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	306	70	Yes
118-H-1:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	22,000	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	25	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,740	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,700	9,047	Yes
118-H-1:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.89	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.78E+07	1.22E+06	Yes
118-H-1:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,900	--[a]	--
118-H-1:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295,000	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	202	80	Yes
118-H-1:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	341	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	8.2	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	708,901	No
118-H-1:1_Shallow_Focused	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,480	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	11	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,500	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,300	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44,900	--[d]	--
118-H-1:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,700	1.06E+06	No
118-H-1:1_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	2.1	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Ceslum-137	10045-97-3	pCi/g	1.0	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.30	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	11	7,995	No
118-H-1:1_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	--[a]	--
118-H-1:1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	738	No
118-H-1:1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	8.7	85	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Acenaphthene	83-32-9	ug/kg	5.3	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	--[a]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,372	236,663	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	47,506	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.6	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.9	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.2	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	182	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-1:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,217	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	87	70	Yes
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	12,039	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	2.1	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	5,255	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	13,136	9,047	Yes
118-H-1:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	3.8	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.8	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.64E+07	1.22E+06	Yes
118-H-1:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	5,802	--[e]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	254,283	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	32	80	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	223	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,780	708,901	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,861	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Silver	7440-22-4	ug/kg	131	902	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	7,617	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	42,420	--[d]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	32,172	1.06E+06	No
118-H-1:1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	1.1	--[a]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.69	--[a]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	--[a]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Europium-152	14683-23-9	pCi/g	0.19	--[a]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.49	738	No
118-H-1:1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	2.7	85	No
118-H-1:2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	--[a]	--
118-H-1:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	12	--[d]	--
118-H-1:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,301	236,663	No
118-H-1:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88,725	--[d]	--
118-H-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	28	--[d]	--
118-H-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33	--[d]	--
118-H-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--[d]	--
118-H-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	40	--[d]	--
118-H-1:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	207	--[c]	--
118-H-1:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,323	--[d]	--
118-H-1:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	136	70	Yes
118-H-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,971	--[a]	--
118-H-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--[d]	--
118-H-1:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,234	--[d]	--
118-H-1:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,149	9,047	Yes
118-H-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	76	--[d]	--
118-H-1:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	7.3	--[d]	--
118-H-1:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	544	6,000[b]	No
118-H-1:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	68	--[d]	--
118-H-1:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.93E+07	1.22E+06	Yes
118-H-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,968	--[e]	--
118-H-1:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	340,196	--[d]	--
118-H-1:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	80	No
118-H-1:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	300	--[d]	--
118-H-1:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13,022	708,901	No
118-H-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	84	--[d]	--
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,600	--[c]	--
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,042	--[c]	--
118-H-1:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	44,407	--[d]	--
118-H-1:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,743	1.06E+06	No
118-H-1:2_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.064	85	No
118-H-1:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.95E+06	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	7.6	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	236,663	No
118-H-1:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,700	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	43	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	35	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-1:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	110	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	120	70	Yes
118-H-1:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,000	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	35	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,600	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	9,047	Yes
118-H-1:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	83	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369	6,000[b]	No
118-H-1:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	26	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.55E+07	1.22E+06	Yes
118-H-1:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,700	--[a]	--
118-H-1:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273,000	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,200	708,901	No
118-H-1:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	52	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	--[e]	--
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,100	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	37,100	--[d]	--
118-H-1:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,800	1.06E+06	No
118-H-1:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	0.81	--[a]	--
118-H-2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.95E+06	--[a]	--
118-H-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,041	1.15E+06	No
118-H-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	64,447	--[a]	--
118-H-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	224	--[d]	--
118-H-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,365	--[d]	--
118-H-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	86	340	No
118-H-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,049	--[a]	--
118-H-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,814	--[c]	--
118-H-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,954	44,057	No
118-H-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	171	6,000[b]	No
118-H-2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.72E+07	5.92E+06	Yes
118-H-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,481	--[a]	--
118-H-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	266,309	--[d]	--
118-H-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	390	No
118-H-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	309	--[d]	--
118-H-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,619	3.45E+06	No
118-H-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,689	--[c]	--
118-H-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	41,613	--[d]	--
118-H-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	34,224	5.16E+06	No
118-H-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.30	--[a]	--
118-H-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	--[a]	--
118-H-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	13	38,934	No
118-H-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	--[c]	--
118-H-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.032	--[c]	--
118-H-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	--[c]	--
118-H-3_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	9.41E+06	--[a]	--
118-H-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	743	--[d]	--
118-H-3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	55	--[d]	--
118-H-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	15,852	452,304	No
118-H-3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	83,791	--[d]	--
118-H-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	321	--[d]	--
118-H-3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	3,104	--[d]	--
118-H-3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	153	133	Yes
118-H-3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,218	--[a]	--
118-H-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,931	--[d]	--
118-H-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	23,535	17,290	Yes
118-H-3_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80	6,000[b]	No
118-H-3_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	2.32E+06	Yes
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	57,642	--[a]	--
118-H-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	345,494	--[d]	--
118-H-3_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	11	153	No
118-H-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	1,412	--[d]	--
118-H-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	14,747	1.35E+06	No
118-H-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	417	1,723	No
118-H-3_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,864	--[c]	--
118-H-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	45,491	--[d]	--
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	132,913	2.03E+06	No
118-H-3_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	--[c]	--
118-H-3_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	0.033	--[c]	--
118-H-3_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.63	--[c]	--
118-H-3_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.49E+06	--[a]	--
118-H-3_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[a]	--
118-H-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,014	452,304	No
118-H-3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	73,070	--[d]	--
118-H-3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	261	--[d]	--
118-H-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,578	--[d]	--
118-H-3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	97	133	No
118-H-3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,622	--[a]	--
118-H-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,141	--[d]	--
118-H-3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,147	17,290	No
118-H-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	400	6,000[b]	No
118-H-3_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	2.32E+06	Yes
118-H-3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	6,789	--[a]	--
118-H-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	300,387	--[d]	--
118-H-3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	15	153	No
118-H-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	280	--[d]	--
118-H-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,769	1.35E+06	No
118-H-3_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,910	--[c]	--
118-H-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,329	--[d]	--
118-H-3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	38,757	2.03E+06	No
118-H-3_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[c]	--
118-H-3_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.64	--[c]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.10E+06	--[a]	--
118-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	452,304	No
118-H-3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	56,700	--[c]	--
118-H-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	211	--[d]	--
118-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,630	--[d]	--
118-H-3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	81	133	No
118-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,110	--[a]	--
118-H-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,690	--[d]	--
118-H-3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	17,290	No
118-H-3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.66E+07	2.32E+06	Yes
118-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,600	--[a]	--
118-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	255,000	--[d]	--
118-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	363	--[d]	--
118-H-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,550	1.35E+06	No
118-H-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,819	--[c]	--
118-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,300	--[d]	--
118-H-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,900	2.03E+06	No
118-H-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.23	--[a]	--
118-H-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.53	--[a]	--
118-H-3_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	8.8	15,279	No
118-H-3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[c]	--
118-H-3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.95	--[c]	--
118-H-4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.89E+06	--[a]	--
118-H-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,442	4.48E+07	No
118-H-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,445	--[d]	--
118-H-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	228	--[d]	--
118-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,534	--[d]	--
118-H-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	132	13,229	No
118-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,715	--[a]	--
118-H-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,894	--[d]	--
118-H-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,054	1.71E+06	No
118-H-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	90	6,000[b]	No
118-H-4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.84E+07	2.30E+08	No
118-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	9,065	--[a]	--
118-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,088	--[d]	--
118-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	15,162	No
118-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	437	--[d]	--
118-H-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,015	1.34E+08	No
118-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	45,964	--[d]	--
118-H-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,843	2.01E+08	No
118-H-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.1	--[a]	--
118-H-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.10	--[a]	--
118-H-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.3	139,760	No
118-H-4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.70E+06	--[a]	--
118-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	4.48E+07	No
118-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	46,300	--[d]	--
118-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	148	--[d]	--
118-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,440	--[d]	--
118-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	113	13,229	No
118-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,900	--[a]	--
118-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,520	--[d]	--
118-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,600	1.71E+06	No
118-H-4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.42E+07	2.30E+08	No
118-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,330	--[a]	--
118-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	222,000	--[d]	--
118-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	424	--[d]	--
118-H-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,730	1.34E+08	No
118-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,000	--[d]	--
118-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,300	2.01E+08	No
118-H-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.25	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	6.03E+06	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	3,913	4.48E+07	No
118-H-4_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	63,087	--[d]	--
118-H-4_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	176	--[d]	--
118-H-4_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	2,987	--[d]	--
118-H-4_Staging Pile Area	non-Rad	Cadmium	7440-43-9	ug/kg	170	13,229	No
118-H-4_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	9,780	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	6,100	--[d]	--
118-H-4_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	14,864	1.71E+06	No
118-H-4_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	150	6,000[b]	No
118-H-4_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	2.30E+08	No
118-H-4_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	28,136	--[a]	--
118-H-4_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	258,296	--[d]	--
118-H-4_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	482	--[d]	--
118-H-4_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	9,598	1.34E+08	No
118-H-4_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	48,115	--[d]	--
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	72,799	2.01E+08	No
118-H-4_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
118-H-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.59E+06	--[a]	--
118-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,597	4.48E+07	No
118-H-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,388	--[d]	--
118-H-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	232	--[d]	--
118-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	6,246	--[d]	--
118-H-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	57	13,229	No
118-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,718	--[a]	--
118-H-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,765	--[d]	--
118-H-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,038	1.71E+06	No
118-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369	6,000[b]	No
118-H-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.68E+07	2.30E+08	No
118-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,128	--[a]	--
118-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	276,172	--[d]	--
118-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	329	--[d]	--
118-H-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,970	1.34E+08	No

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,871	--[c]	--
118-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,149	--[d]	--
118-H-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	36,296	2.01E+08	No
118-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.8	--[a]	--
118-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	139,760	No
118-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	--[c]	--
118-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	--[c]	--
118-H-5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.88E+06	--[a]	--
118-H-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,490	4.48E+07	No
118-H-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	46,100	--[d]	--
118-H-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	197	--[d]	--
118-H-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,290	--[d]	--
118-H-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	47	13,229	No
118-H-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,500	--[a]	--
118-H-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,490	--[d]	--
118-H-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,700	1.71E+06	No
118-H-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[b]	No
118-H-5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.57E+07	2.30E+08	No
118-H-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	9,240	--[a]	--
118-H-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	257,000	--[d]	--
118-H-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	277	--[d]	--
118-H-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	1.34E+08	No
118-H-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,105	--[c]	--
118-H-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,400	--[d]	--
118-H-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	33,900	2.01E+08	No
118-H-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[c]	--
118-H-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.71	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,500	6,000[b]	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Lead	7439-92-1	ug/kg	22,400	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,286	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	0.27	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	5.0	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	1.3	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.052	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	15	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.97	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	5.6	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Uranium-238	U-238	pCi/g	0.77	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	17	5,419	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	940	6,000[b]	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Lead	7439-92-1	ug/kg	19,900	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,649	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	0.56	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	25	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cesium-137	10045-97-3	pCi/g	20	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	3.4	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	0.43	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Neptunium-237	13994-20-2	pCi/g	0.036	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	43	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.0	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.3	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Tritium	10028-17-8	pCi/g	0.25	165	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-235	15117-96-1	pCi/g	0.037	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-238	U-238	pCi/g	0.55	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,396	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Cesium-137	10045-97-3	pCi/g	0.39	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.57	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Tritium	10028-17-8	pCi/g	0.57	165	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.40	--[c]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Uranium-238	U-238	pCi/g	0.47	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	34,300	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,721	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.30	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.3	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	5.2	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-154	15585-10-1	pCi/g	0.66	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Neptunium-237	13994-20-2	pCi/g	0.029	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	25	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.40	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.63	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	0.038	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	0.58	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,542	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	1.2	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.033	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	15	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.52	--[c]	--
118-H-6:4_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.37E+06	--[a]	--
118-H-6:4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,176	436,571	No
118-H-6:4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	57,934	--[d]	--
118-H-6:4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	167	--[d]	--
118-H-6:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	809	--[d]	--
118-H-6:4_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	86	129	No
118-H-6:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,710	--[a]	--
118-H-6:4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,242	--[d]	--
118-H-6:4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,371	16,688	No
118-H-6:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	127	6,000[b]	No
118-H-6:4_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.82E+07	2.24E+06	Yes
118-H-6:4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,138	--[a]	--
118-H-6:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	265,613	--[d]	--
118-H-6:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	24	148	No
118-H-6:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	327	--[d]	--
118-H-6:4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,985	1.31E+06	No
118-H-6:4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,569	--[c]	--
118-H-6:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	45,939	--[d]	--
118-H-6:4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,240	1.96E+06	No
118-H-6:4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.18	--[a]	--
118-H-6:4_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.93	--[a]	--
118-H-6:4_Overburden	Rad	Neptunium-237	13994-20-2	pCi/g	0.077	18	No
118-H-6:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.48	1,361	No
118-H-6:4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	--[c]	--
118-H-6:4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.53	--[c]	--
118-H-6:4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.83E+06	--[a]	--
118-H-6:4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,849	436,571	No
118-H-6:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,215	--[d]	--
118-H-6:4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	188	--[d]	--
118-H-6:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	633	--[d]	--
118-H-6:4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	100	129	No
118-H-6:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,218	--[a]	--
118-H-6:4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,711	--[d]	--
118-H-6:4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	19,414	16,688	Yes
118-H-6:4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	2.24E+06	Yes
118-H-6:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,409	--[a]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-6:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	251,118	--[d]	--
118-H-6:4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	442	--[d]	--
118-H-6:4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,521	1.31E+06	No
118-H-6:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,653	--[c]	--
118-H-6:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,568	--[d]	--
118-H-6:4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,342	1.96E+06	No
118-H-6:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	--[a]	--
118-H-6:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	--[c]	--
118-H-6:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.56	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	5.8	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.02E+07	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	2.8	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	664	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	5,136	No
118-H-6:5_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.4	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	39,809	436,571	No
118-H-6:5_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	87,997	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	26	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	319	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,401	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	75	129	No
118-H-6:5_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,672	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	19	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,195	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,954	16,688	No
118-H-6:5_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.2	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	78	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	2.7	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80	6,000[b]	No
118-H-6:5_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	21	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	2.24E+06	Yes
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	171,632	--[a]	--
118-H-6:5_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	338,381	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	485	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	16	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,228	1.31E+06	No
118-H-6:5_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	66	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,426	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,998	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	--[d]	--
118-H-6:5_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	46,713	1.96E+06	No
118-H-6:5_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	7.1	--[a]	--
118-H-6:5_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.18	--[a]	--
118-H-6:5_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	0.38	4.4	No
118-H-6:5_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	--[c]	--
118-H-6:5_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.67	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	24	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.27E+06	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	9.7	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	464	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	6,824	436,571	No
118-H-6:5_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	111,681	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	98	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	69	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	204	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	62	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	239	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	12,190	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	88	129	No
118-H-6:5_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,953	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	121	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,641	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	15,897	16,688	No
118-H-6:5_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.4	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	707	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	5.6	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60	6,000[b]	No
118-H-6:5_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.86E+07	2.24E+06	Yes
118-H-6:5_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	13,861	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	310,415	--[a]	--
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	167	148	Yes
118-H-6:5_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	467	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	44	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,980	1.31E+06	No
118-H-6:5_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	254	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	38,884	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,777	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	53,432	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.1	--[d]	--
118-H-6:5_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	44,927	1.96E+06	No
118-H-6:5_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.4	--[a]	--
118-H-6:5_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.100	--[a]	--
118-H-6:5_Shallow_2	Rad	Technetium-99	14133-76-7	pCi/g	0.40	4.4	No
118-H-6:5_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	6.7	156	No
118-H-6:5_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	--[c]	--
118-H-6:5_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.59	--[c]	--
118-H-6:5_Shallow_3	non-Rad	2-Hexanone	591-78-6	ug/kg	4.7	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-6:5_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.40E+06	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	2.4	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	505	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	4,522	436,571	No
118-H-6:5_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	62,837	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.2	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.7	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.2	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.5	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	211	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,892	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	97	129	No
118-H-6:5_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	10,827	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	3.2	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,132	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	13,821	16,688	No
118-H-6:5_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.98	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	9.5	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.74E+07	2.24E+06	Yes
118-H-6:5_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	11,233	--[a]	--
118-H-6:5_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	281,265	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.6	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	374	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	42	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,882	1.31E+06	No
118-H-6:5_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	10	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,695	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,234	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,611	--[d]	--
118-H-6:5_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,700	1.96E+06	No
118-H-6:5_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	0.96	--[a]	--
118-H-6:5_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0.20	--[a]	--
118-H-6:5_Shallow_3	Rad	Tritium	10028-17-8	pCi/g	7.0	156	No
118-H-6:5_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	--[c]	--
118-H-6:5_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0.75	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	8.3	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.75E+06	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	4.9	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	592	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	27,000	436,571	No
118-H-6:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	65,600	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	53	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	40	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	251	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,710	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	103	129	No
118-H-6:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,000	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	47	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,700	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	34,500	16,688	Yes
118-H-6:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.5	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	171	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	3.7	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	2.24E+06	Yes
118-H-6:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	114,000	--[a]	--
118-H-6:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	311,000	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	439	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	10	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	1.31E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	149	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,000	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - gasoline range	TPHGASOLINE	ug/kg	470	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	41,600	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,054	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	49,400	--[d]	--
118-H-6:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,400	1.96E+06	No
118-H-6:5_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--[a]	--
118-H-6:5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	4.1	156	No
118-H-6:5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.93	--[c]	--
118-H-6:5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.69	--[c]	--
128-H-1_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.29	--[d]	--
128-H-1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	4.4	--[d]	--
128-H-1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.54E+06	--[a]	--
128-H-1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	3.1	--[d]	--
128-H-1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.1	3,224	No
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	40,542	274,019	No
128-H-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	85,541	--[d]	--
128-H-1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	30	--[d]	--
128-H-1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[d]	--
128-H-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--[d]	--
128-H-1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19	--[d]	--
128-H-1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	274	--[d]	--
128-H-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	144	--[d]	--
128-H-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,799	--[d]	--
128-H-1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	177	81	Yes
128-H-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,085	--[a]	--
128-H-1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	29	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
128-H-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,539	--[d]	--
128-H-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,458	10,475	Yes
128-H-1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6	--[d]	--
128-H-1_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	1.3	5.6	No
128-H-1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	98	--[d]	--
128-H-1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	2.6	--[d]	--
128-H-1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	39	--[d]	--
128-H-1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.85E+07	1.41E+06	Yes
128-H-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	253,830	--[a]	--
128-H-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,886	--[d]	--
128-H-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	93	No
128-H-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	391	--[d]	--
128-H-1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	5.5	--[d]	--
128-H-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,022	820,796	No
128-H-1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	95	--[d]	--
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,400	--[d]	--
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000	--[c]	--
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	39,451	--[d]	--
128-H-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	47,044	--[d]	--
128-H-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	49,389	1.23E+06	No
128-H-1_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	--[d]	--
128-H-1_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	26	--[d]	--
128-H-1_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	9.87E+06	--[a]	--
128-H-1_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	3.5	--[d]	--
128-H-1_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	239	--[d]	--
128-H-1_Shallow_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.4	--[a]	--
128-H-1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	10,642	274,019	No
128-H-1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	102,210	--[d]	--
128-H-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	50	--[d]	--
128-H-1_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	60	--[d]	--
128-H-1_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	59	--[d]	--
128-H-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29	--[d]	--
128-H-1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	297	--[d]	--
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	4,922	--[d]	--
128-H-1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	152	81	Yes
128-H-1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,634	--[a]	--
128-H-1_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	49	--[d]	--
128-H-1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,720	--[d]	--
128-H-1_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	14,071	10,475	Yes
128-H-1_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.6	--[d]	--
128-H-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	154	--[d]	--
128-H-1_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	4.3	--[d]	--
128-H-1_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[b]	No
128-H-1_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[d]	--
128-H-1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.84E+07	1.41E+06	Yes
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	65,620	--[a]	--
128-H-1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	298,334	--[d]	--
128-H-1_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	30	93	No
128-H-1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	347	--[d]	--
128-H-1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,942	820,796	No
128-H-1_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	102	--[d]	--
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,742	--[d]	--
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	19,397	--[d]	--
128-H-1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,141	--[d]	--
128-H-1_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,831	1.23E+06	No
128-H-1_Shallow_4	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.5	--[d]	--
128-H-1_Shallow_4	non-Rad	Acenaphthene	83-32-9	ug/kg	15	--[d]	--
128-H-1_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	1.02E+07	--[a]	--
128-H-1_Shallow_4	non-Rad	Anthracene	120-12-7	ug/kg	1.3	--[d]	--
128-H-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.4	3,224	No
128-H-1_Shallow_4	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19	--[a]	--
128-H-1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5,365	274,019	No
128-H-1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	95,142	--[d]	--
128-H-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.9	--[d]	--
128-H-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[d]	--
128-H-1_Shallow_4	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[d]	--
128-H-1_Shallow_4	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3	--[d]	--
128-H-1_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	309	--[d]	--
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	4,462	--[d]	--
128-H-1_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	163	81	Yes
128-H-1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	14,369	--[a]	--
128-H-1_Shallow_4	non-Rad	Chrysene	218-01-9	ug/kg	11	--[d]	--
128-H-1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	6,783	--[d]	--
128-H-1_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	13,865	10,475	Yes
128-H-1_Shallow_4	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[d]	--
128-H-1_Shallow_4	non-Rad	Fluoranthene	206-44-0	ug/kg	28	--[d]	--
128-H-1_Shallow_4	non-Rad	Fluorene	86-73-7	ug/kg	4.3	--[d]	--
128-H-1_Shallow_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	156	6,000[b]	No
128-H-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.3	--[d]	--
128-H-1_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	1.41E+06	Yes
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	44,536	--[a]	--
128-H-1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	319,234	--[d]	--
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1,031	93	Yes
128-H-1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	414	--[d]	--
128-H-1_Shallow_4	non-Rad	Naphthalene	91-20-3	ug/kg	6.6	--[d]	--
128-H-1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	11,655	820,796	No
128-H-1_Shallow_4	non-Rad	Pyrene	129-00-0	ug/kg	18	--[d]	--
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	10,082	--[d]	--
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	48,270	--[d]	--
128-H-1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	51,297	--[d]	--
128-H-1_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	40,798	1.23E+06	No
128-H-1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	7.61E+06	--[a]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
128-H-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,785	274,019	No
128-H-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	66,201	--[d]	--
128-H-1_Shallow_5	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[d]	--
128-H-1_Shallow_5	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13	--[d]	--
128-H-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	122	--[d]	--
128-H-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	75	--[d]	--
128-H-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,534	--[d]	--
128-H-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	74	81	No
128-H-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	12,741	--[a]	--
128-H-1_Shallow_5	non-Rad	Chrysene	218-01-9	ug/kg	15	--[d]	--
128-H-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	6,508	--[d]	--
128-H-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	16,559	10,475	Yes
128-H-1_Shallow_5	non-Rad	Fluoranthene	206-44-0	ug/kg	23	--[d]	--
128-H-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	917	6,000[b]	No
128-H-1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	1.57E+07	1.41E+06	Yes
128-H-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	6,674	--[a]	--
128-H-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	270,578	--[d]	--
128-H-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	23	93	No
128-H-1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	490	--[d]	--
128-H-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	11,527	820,796	No
128-H-1_Shallow_5	non-Rad	Pyrene	129-00-0	ug/kg	30	--[d]	--
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	160,000	--[d]	--
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	357,773	--[c]	--
128-H-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	40,807	--[d]	--
128-H-1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	36,178	1.23E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Acenaphthene	83-32-9	ug/kg	48	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Aluminum	7429-90-5	ug/kg	1.11E+07	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Anthracene	120-12-7	ug/kg	24	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.8	3,224	No
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Arsenic	7440-38-2	ug/kg	54,142	274,019	No
128-H-1_Staging pile area footprint_2	non-Rad	Barium	7440-39-3	ug/kg	88,760	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	17	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.4	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Beryllium	7440-41-7	ug/kg	338	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Boron	7440-42-8	ug/kg	3,306	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Cadmium	7440-43-9	ug/kg	148	81	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Chromium	7440-47-3	ug/kg	15,220	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Chrysene	218-01-9	ug/kg	10	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,810	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Copper	7440-50-8	ug/kg	13,202	10,475	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Fluoranthene	206-44-0	ug/kg	56	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Fluorene	86-73-7	ug/kg	12	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	1.41E+06	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Lead	7439-92-1	ug/kg	124,843	--[a]	--
128-H-1_Staging pile area footprint_2	non-Rad	Manganese	7439-96-5	ug/kg	339,768	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Mercury	7439-97-6	ug/kg	67	93	No
128-H-1_Staging pile area footprint_2	non-Rad	Molybdenum	7439-98-7	ug/kg	276	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Nickel	7440-02-0	ug/kg	12,076	820,796	No
128-H-1_Staging pile area footprint_2	non-Rad	Pyrene	129-00-0	ug/kg	33	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	23,047	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Vanadium	7440-62-2	ug/kg	46,690	--[d]	--
128-H-1_Staging pile area footprint_2	non-Rad	Zinc	7440-66-6	ug/kg	43,441	1.23E+06	No
128-H-1_Staging pile area footprint_6	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--[a]	--
128-H-1_Staging pile area footprint_6	non-Rad	Arsenic	7440-38-2	ug/kg	3,730	274,019	No
128-H-1_Staging pile area footprint_6	non-Rad	Barium	7440-39-3	ug/kg	89,946	--[d]	--
128-H-1_Staging pile area footprint_6	non-Rad	Beryllium	7440-41-7	ug/kg	272	--[d]	--
128-H-1_Staging pile area footprint_6	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
128-H-1_Staging pile area footprint_6	non-Rad	Boron	7440-42-8	ug/kg	1,747	--[d]	--
128-H-1_Staging pile area footprint_6	non-Rad	Cadmium	7440-43-9	ug/kg	91	81	Yes
128-H-1_Staging pile area footprint_6	non-Rad	Chromium	7440-47-3	ug/kg	14,174	--[e]	--
128-H-1_Staging pile area footprint_6	non-Rad	Cobalt	7440-48-4	ug/kg	7,326	--[d]	--
128-H-1_Staging pile area footprint_6	non-Rad	Copper	7440-50-8	ug/kg	14,851	10,475	Yes
128-H-1_Staging pile area footprint_6	non-Rad	Diethylphthalate	84-66-2	ug/kg	35	--[d]	--
128-H-1_Staging pile area footprint_6	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	233	6,000[b]	No
128-H-1_Staging pile area footprint_6	non-Rad	Iron	7439-89-6	ug/kg	2.04E+07	1.41E+06	Yes
128-H-1_Staging pile area footprint_6	non-Rad	Lead	7439-92-1	ug/kg	5,852	--[a]	--
128-H-1_Staging pile area footprint_6	non-Rad	Manganese	7439-96-5	ug/kg	333,857	--[d]	--
128-H-1_Staging pile area footprint_6	non-Rad	Mercury	7439-97-6	ug/kg	7.5	93	No
128-H-1_Staging pile area footprint_6	non-Rad	Nickel	7440-02-0	ug/kg	13,384	820,796	No
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,700	--[d]	--
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,494	--[c]	--
128-H-1_Staging pile area footprint_6	non-Rad	Vanadium	7440-62-2	ug/kg	40,715	--[d]	--
128-H-1_Staging pile area footprint_6	non-Rad	Zinc	7440-66-6	ug/kg	40,935	1.23E+06	No
128-H-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.05E+06	--[a]	--
128-H-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,500	2.42E+06	No
128-H-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	82,600	--[d]	--
128-H-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[d]	--
128-H-2_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	22	--[d]	--
128-H-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,800	--[e]	--
128-H-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,300	92,489	No
128-H-2_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	36	--[d]	--
128-H-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	6,000[b]	No
128-H-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	1.24E+07	Yes
128-H-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,900	--[a]	--
128-H-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	329,000	--[d]	--
128-H-2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	4.0	--[d]	--
128-H-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,100	7.25E+06	No
128-H-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,200	10,689	No
128-H-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	4,100	--[d]	--
128-H-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,500	--[d]	--
128-H-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	42,000	1.08E+07	No
128-H-3_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.7	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.75E+06	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	11,000	3.07E+06	No
128-H-3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	81,800	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	18	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	360	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,700	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	28	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,900	--[e]	--
128-H-3_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	20	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,400	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,800	117,164	No
128-H-3_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	120	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.36E+07	1.57E+07	Yes
128-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	94,100	--[a]	--
128-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	40	1,037	No
128-H-3_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	6.0	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,400	9.18E+06	No
128-H-3_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	28	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,000	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,000	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	60,500	--[d]	--
128-H-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,800	1.37E+07	No
1607-H1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	--[a]	--
1607-H1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	420	--[c]	--
1607-H1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	14,321	828,887	No
1607-H1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	79,109	--[d]	--
1607-H1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56	--[c]	--
1607-H1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	267	--[d]	--
1607-H1_Overburden	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.4	--[d]	--
1607-H1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	282	--[d]	--
1607-H1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	3,760	--[d]	--
1607-H1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	108	245	No
1607-H1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,120	--[e]	--
1607-H1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,260	--[d]	--
1607-H1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,456	31,685	No
1607-H1_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	2.0	8.4	No
1607-H1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	71	--[c]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
1607-H1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,465	--[d]	--
1607-H1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	6,000[b]	No
1607-H1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	4.26E+06	Yes
1607-H1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	60,452	--[a]	--
1607-H1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	299,830	--[d]	--
1607-H1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	280	No
1607-H1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	449	--[d]	--
1607-H1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,144	2.48E+06	No
1607-H1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	57,506	--[d]	--
1607-H1_Overburden	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,996	--[d]	--
1607-H1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	96	--[d]	--
1607-H1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	979	3,662	No
1607-H1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,112	--[c]	--
1607-H1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	46,454	--[d]	--
1607-H1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	39,273	3.71E+06	No
1607-H1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--[a]	--
1607-H1_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	--[c]	--
1607-H1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	--[c]	--
1607-H1_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.0	--[d]	--
1607-H1_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.3	--[a]	--
1607-H1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.88E+06	--[a]	--
1607-H1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	208	--[d]	--
1607-H1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	27	9,752	No
1607-H1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--[a]	--
1607-H1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9,508	828,887	No
1607-H1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	80,403	--[d]	--
1607-H1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75	--[d]	--
1607-H1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	68	--[d]	--
1607-H1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--[d]	--
1607-H1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	268	--[d]	--
1607-H1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	211	--[d]	--
1607-H1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,052	--[d]	--
1607-H1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	127	245	No
1607-H1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,089	--[a]	--
1607-H1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	78	--[d]	--
1607-H1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,042	--[d]	--
1607-H1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,043	31,685	No
1607-H1_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	3.9	8.4	No
1607-H1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	253	--[d]	--
1607-H1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	171	--[d]	--
1607-H1_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	4,029	--[d]	--
1607-H1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	137	6,000[b]	No
1607-H1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	4.26E+06	Yes
1607-H1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	25,361	--[a]	--
1607-H1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	315,367	--[d]	--
1607-H1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	97	280	No
1607-H1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	383	--[d]	--
1607-H1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,940	2.48E+06	No
1607-H1_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	12,618	--[d]	--
1607-H1_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,747	--[d]	--
1607-H1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	233	--[d]	--
1607-H1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,781	--[c]	--
1607-H1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	--[d]	--
1607-H1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,328	3.71E+06	No
1607-H1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--[a]	--
1607-H1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.077	--[a]	--
1607-H1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.34	--[a]	--
1607-H1_Shallow	Rad	Tritium	10028-17-8	pCi/g	7.4	297	No
1607-H1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	--[c]	--
1607-H1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.60	--[c]	--
1607-H1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.87E+06	--[a]	--
1607-H1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	828,887	No
1607-H1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	40,500	--[d]	--
1607-H1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	55	245	No
1607-H1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,800	--[a]	--
1607-H1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,800	--[d]	--
1607-H1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	31,685	No
1607-H1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.24E+07	4.26E+06	Yes
1607-H1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,700	--[a]	--
1607-H1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	228,000	--[d]	--
1607-H1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,200	2.48E+06	No
1607-H1_Shallow_Focused	non-Rad	Nitrogen In Nitrate	NO3-N	ug/kg	840	--[d]	--
1607-H1_Shallow_Focused	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	570	--[d]	--
1607-H1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	0.043	--[c]	--
1607-H1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	33,500	--[d]	--
1607-H1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	29,900	3.71E+06	No
1607-H1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.27	--[c]	--
1607-H2_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	447,267	No
1607-H2_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,100	--[a]	--
1607-H2_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	--[a]	--
1607-H2_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	62	151	No
1607-H2_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	23	--[d]	--
1607-H2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	15,800	447,267	No
1607-H2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	100	--[d]	--
1607-H2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	130	--[d]	--
1607-H2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	76	--[d]	--
1607-H2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	94	--[d]	--
1607-H2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,300	--[a]	--
1607-H2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	120	--[d]	--
1607-H2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	230	--[d]	--
1607-H2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[d]	--
1607-H2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	54,900	--[a]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
1607-H2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	220	--[d]	--
1607-H2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,116	--[c]	--
1607-H2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.038	--[a]	--
1607-H2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	--[c]	--
1607-H2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	--[c]	--
1607-H2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	160	5,262	No
1607-H2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	7,132	447,267	No
1607-H2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	24	--[d]	--
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	204,000	--[a]	--
1607-H2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	110	--[d]	--
1607-H2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	37,629	--[a]	--
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2,591	151	Yes
1607-H2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,242	--[c]	--
1607-H2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.073	--[a]	--
1607-H2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.92	--[c]	--
1607-H2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.75	--[c]	--
1607-H2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	447,267	No
1607-H2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,900	--[a]	--
1607-H2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,500	--[a]	--
1607-H2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	151	No
1607-H3_Overburden	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.0	--[d]	--
1607-H3_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	18	--[d]	--
1607-H3_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5	--[a]	--
1607-H3_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--[d]	--
1607-H3_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.07E+06	--[a]	--
1607-H3_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	1.7	--[d]	--
1607-H3_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15	35,800	No
1607-H3_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[a]	--
1607-H3_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,302	3.04E+06	No
1607-H3_Overburden	non-Rad	Barium	7440-39-3	ug/kg	97,722	--[d]	--
1607-H3_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.2	--[d]	--
1607-H3_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[d]	--
1607-H3_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.7	--[d]	--
1607-H3_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--[d]	--
1607-H3_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	261	--[d]	--
1607-H3_Overburden	non-Rad	Boron	7440-42-8	ug/kg	4,725	--[d]	--
1607-H3_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	139	898	No
1607-H3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	49,818	--[a]	--
1607-H3_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	12	--[d]	--
1607-H3_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,300	--[d]	--
1607-H3_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,980	116,311	No
1607-H3_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.7	--[d]	--
1607-H3_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	3.2	63	No
1607-H3_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	22	--[d]	--
1607-H3_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	1.4	--[d]	--
1607-H3_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	992	--[c]	--
1607-H3_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	129	6,000[b]	No
1607-H3_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.0	--[d]	--
1607-H3_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.94E+07	1.56E+07	Yes
1607-H3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	21,505	--[a]	--
1607-H3_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306,125	--[d]	--
1607-H3_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	1,029	No
1607-H3_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	11	--[d]	--
1607-H3_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	365	--[d]	--
1607-H3_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	103	--[d]	--
1607-H3_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	21,414	9.11E+06	No
1607-H3_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	43,234	--[d]	--
1607-H3_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,068	--[d]	--
1607-H3_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	16	--[d]	--
1607-H3_Overburden	non-Rad	Silver	7440-22-4	ug/kg	840	11,591	No
1607-H3_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51,141	--[d]	--
1607-H3_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51,058	1.36E+07	No
1607-H3_Shallow_1	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	219	--[d]	--
1607-H3_Shallow_1	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	1.6	--[d]	--
1607-H3_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.8	--[d]	--
1607-H3_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	10	--[a]	--
1607-H3_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	409	--[d]	--
1607-H3_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.01E+06	--[a]	--
1607-H3_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	7.8	--[d]	--
1607-H3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	389	--[d]	--
1607-H3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	11	35,800	No
1607-H3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19	--[a]	--
1607-H3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,240	3.04E+06	No
1607-H3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	70,120	--[d]	--
1607-H3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[d]	--
1607-H3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.6	--[d]	--
1607-H3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.7	--[d]	--
1607-H3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.2	--[d]	--
1607-H3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	245	--[d]	--
1607-H3_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	4.6	--[d]	--
1607-H3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,945	--[d]	--
1607-H3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	121	898	No
1607-H3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,104	--[a]	--
1607-H3_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	43	--[d]	--
1607-H3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,690	--[d]	--
1607-H3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,285	116,311	No
1607-H3_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.3	--[d]	--
1607-H3_Shallow_1	non-Rad	Endosulfan I	959-98-8	ug/kg	3.0	63	No
1607-H3_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	69	--[d]	--
1607-H3_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	76	--[d]	--
1607-H3_Shallow_1	non-Rad	Fluoride	16984-48-8	ug/kg	1,326	--[d]	--
1607-H3_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.87E+07	1.56E+07	Yes

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
1607-H3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	9,027	--[a]	--
1607-H3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	287,009	--[d]	--
1607-H3_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	9.0	1,029	No
1607-H3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	441	--[d]	--
1607-H3_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	169	--[d]	--
1607-H3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,739	9.11E+06	No
1607-H3_Shallow_1	non-Rad	Nitrate	14797-55-8	ug/kg	6,544	--[d]	--
1607-H3_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,980	--[d]	--
1607-H3_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	22	--[d]	--
1607-H3_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	300	13,442	No
1607-H3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	51,055	--[d]	--
1607-H3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	58,150	1.36E+07	No
1607-H3_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	10	--[d]	--
1607-H3_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.71E+06	--[a]	--
1607-H3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,275	3.04E+06	No
1607-H3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	50,645	--[d]	--
1607-H3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	197	--[d]	--
1607-H3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,136	--[d]	--
1607-H3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	93	898	No
1607-H3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,587	--[a]	--
1607-H3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,450	--[d]	--
1607-H3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,436	116,311	No
1607-H3_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	1,005	--[d]	--
1607-H3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	133	6,000[b]	No
1607-H3_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.55E+07	1.56E+07	No
1607-H3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,086	--[a]	--
1607-H3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	256,381	--[d]	--
1607-H3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	16	1,029	No
1607-H3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	268	--[d]	--
1607-H3_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	7.6	--[d]	--
1607-H3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,188	9.11E+06	No
1607-H3_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	2,497	--[d]	--
1607-H3_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	541	--[d]	--
1607-H3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	42,063	--[d]	--
1607-H3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	33,110	1.36E+07	No
1607-H4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	100	--[d]	--
1607-H4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	280	--[d]	--
1607-H4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	7,500	5.02E+07	No
1607-H4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	365	--[d]	--
1607-H4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	381	--[d]	--
1607-H4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	356	--[d]	--
1607-H4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	355	--[d]	--
1607-H4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	32	--[d]	--
1607-H4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	--[d]	--
1607-H4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,200	--[a]	--
1607-H4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	389	--[d]	--
1607-H4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	22	--[d]	--
1607-H4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	42	--[d]	--
1607-H4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,300	--[d]	--
1607-H4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	93	--[d]	--
1607-H4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	180	--[d]	--
1607-H4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	44,100	--[a]	--
1607-H4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	40	16,981	No
1607-H4_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	25	--[d]	--
1607-H4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,200	--[d]	--
1607-H4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,587	--[c]	--
1607-H4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.14	--[a]	--
1607-H4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	--[c]	--
1607-H4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	--[c]	--
600-151_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.70	--[d]	--
600-151_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.89	--[a]	--
600-151_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	6.8	--[d]	--
600-151_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	--[a]	--
600-151_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	5.4	--[d]	--
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	31,816	883,126	No
600-151_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	100,704	--[d]	--
600-151_Shallow_1	non-Rad	Benzo[a]anthracene	56-55-3	ug/kg	75	--[d]	--
600-151_Shallow_1	non-Rad	Benzo[a]pyrene	50-32-8	ug/kg	58	--[d]	--
600-151_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	46	--[d]	--
600-151_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	23	--[d]	--
600-151_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	178	--[d]	--
600-151_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	4,859	--[d]	--
600-151_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	286	261	Yes
600-151_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,125	--[a]	--
600-151_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	59	--[d]	--
600-151_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,921	--[d]	--
600-151_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	22,587	33,758	No
600-151_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	23	--[d]	--
600-151_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	125	--[d]	--
600-151_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	6.7	--[d]	--
600-151_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	264	6,000[b]	No
600-151_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--[d]	--
600-151_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.02E+07	4.54E+06	Yes
600-151_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	126,984	--[a]	--
600-151_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	352,409	--[d]	--
600-151_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	15	299	No
600-151_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	--[d]	--
600-151_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	470	--[d]	--
600-151_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	13,000	2.65E+06	No
600-151_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	159	--[d]	--
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	940	3,902	No
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,454	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	30,037	--[c]	--
600-151_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	41,178	--[d]	--
600-151_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	64,969	3.96E+06	No
600-151_Shallow_2	non-Rad	2-Butanone	78-93-3	ug/kg	6.9	--[d]	--
600-151_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.47	--[d]	--
600-151_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	30	--[d]	--
600-151_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	9.99E+06	--[a]	--
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	59,606	883,126	No
600-151_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	93,206	--[d]	--
600-151_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	24	--[d]	--
600-151_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	25	--[d]	--
600-151_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	25	--[d]	--
600-151_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[d]	--
600-151_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	129	--[d]	--
600-151_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,271	--[d]	--
600-151_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	596	261	Yes
600-151_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,221	--[a]	--
600-151_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	29	--[d]	--
600-151_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,500	--[d]	--
600-151_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,468	33,758	No
600-151_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	60	--[d]	--
600-151_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	4.54E+06	Yes
600-151_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	266,765	--[a]	--
600-151_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	359,399	--[d]	--
600-151_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	13	299	No
600-151_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	11	--[d]	--
600-151_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	330	--[d]	--
600-151_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,536	2.65E+06	No
600-151_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	72	--[d]	--
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,660	--[d]	--
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,646	--[c]	--
600-151_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	38,407	--[d]	--
600-151_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	47,156	3.96E+06	No
600-151_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.4	--[d]	--
600-151_Shallow_3	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.91	--[a]	--
600-151_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	--[a]	--
600-151_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	6.7	--[d]	--
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	53,961	883,126	No
600-151_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	215,867	--[d]	--
600-151_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38	--[d]	--
600-151_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	39	--[d]	--
600-151_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	31	--[d]	--
600-151_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[d]	--
600-151_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	137	--[d]	--
600-151_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	2,612	--[d]	--
600-151_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	511	261	Yes
600-151_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,175	--[a]	--
600-151_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	45	--[d]	--
600-151_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,685	--[d]	--
600-151_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	16,047	33,758	No
600-151_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	69	--[d]	--
600-151_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	9.0	--[d]	--
600-151_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[d]	--
600-151_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	4.54E+06	Yes
600-151_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	276,283	--[a]	--
600-151_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	323,716	--[d]	--
600-151_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	29	299	No
600-151_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	--[d]	--
600-151_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	370	--[d]	--
600-151_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	18	--[d]	--
600-151_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,315	2.65E+06	No
600-151_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	93	--[d]	--
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	4,406	--[d]	--
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	17,034	--[c]	--
600-151_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	38,454	--[d]	--
600-151_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	62,833	3.96E+06	No
600-152_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.29E+06	--[a]	--
600-152_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	15	--[d]	--
600-152_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,941	5.02E+07	No
600-152_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,843	--[d]	--
600-152_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	13	--[d]	--
600-152_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	15	--[d]	--
600-152_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13	--[d]	--
600-152_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.6	--[d]	--
600-152_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	279	--[d]	--
600-152_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,785	--[d]	--
600-152_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	81	14,817	No
600-152_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,730	--[a]	--
600-152_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	10	--[d]	--
600-152_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,104	--[d]	--
600-152_Shallow	non-Rad	Copper	7440-50-8	ug/kg	23,251	1.92E+06	No
600-152_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.0	--[d]	--
600-152_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	39	--[d]	--
600-152_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.7	--[d]	--
600-152_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	10	--[d]	--
600-152_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.75E+07	2.58E+08	No
600-152_Shallow	non-Rad	Lead	7439-92-1	ug/kg	13,578	--[a]	--
600-152_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	299,185	--[d]	--
600-152_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13	16,981	No
600-152_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	280	--[d]	--
600-152_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,630	1.50E+08	No
600-152_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	18	--[d]	--

Table 7-8. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water (Without Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
600-152_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,512	--[d]	--
600-152_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,243	2.25E+08	No
600-152_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.27	156,531	No

Notes:

a. The calculated soil screening level for the analyte is considered non-representative because breakthrough was not simulated to occur within 1000 years in more than one of the set of representative stratigraphic columns, where breakthrough is defined as a mass concentration exceeding 0.0001 µg/L for nonradionuclides or an activity

b. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

c. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC. However, uranium has been previously identified in association with the 183-H Solar Evaporation Basin as an indicator parameter for that RCRA site. Uranium has been detected above the RCRA permit levels and was detected above the DWS in 2012 in one location. While the analyte does not constitute a groundwater risk, it is being carried forward into the FS as a COC for the area local to 183-H only, based on detections in groundwater.

d. A soil screening level is not calculated because a surface water cleanup level or surface water standard is not available for the analyte.

-- = Not applicable or no value.

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-H-17_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,395	20,000	No
100-H-17_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,015	18,500	No
100-H-17_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	471		
100-H-17_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,489	10,200	No
100-H-17_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,853	3,210	No
100-H-17_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.26	1.1	No
100-H-17_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.50	0.18	Yes
100-H-17_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	1.1	No
100-H-17_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	1.1	No
100-H-21_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	6,550	20,000	No
100-H-21_Deep	non-Rad	Chromium	7440-47-3	ug/kg	13,599	18,500	No
100-H-21_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,472		
100-H-21_Deep	non-Rad	Lead	7439-92-1	ug/kg	17,593	10,200	Yes
100-H-21_Deep	non-Rad	Mercury	7439-97-6	ug/kg	64	13	Yes
100-H-21_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,644	3,210	No
100-H-21_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.4	1.1	Yes
100-H-21_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.28	0.0084	Yes
100-H-21_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.2		
100-H-21_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.41	0.033	Yes
100-H-21_Deep	Rad	Nickel-63	13981-37-8	pCi/g	10		
100-H-21_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.076	0.0038	Yes
100-H-21_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	0.18	Yes
100-H-21_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.51	1.1	No
100-H-21_Deep	Rad	Uranium-238	U-238	pCi/g	0.55	1.1	No
100-H-21_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	11,453	20,000	No
100-H-21_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	14,234	18,500	No
100-H-21_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	813		
100-H-21_Overburden	non-Rad	Lead	7439-92-1	ug/kg	36,426	10,200	Yes
100-H-21_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	13	Yes
100-H-21_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,342	3,210	No
100-H-21_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.1	No
100-H-21_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.28		
100-H-21_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	0.025	Yes
100-H-21_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	1.1	No
100-H-21_Overburden	Rad	Uranium-235	15117-96-1	pCi/g	0.051	0.11	No
100-H-21_Overburden	Rad	Uranium-238	U-238	pCi/g	0.45	1.1	No
100-H-21_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	13,301	20,000	No
100-H-21_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	14,826	18,500	No
100-H-21_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	487		
100-H-21_Shallow	non-Rad	Lead	7439-92-1	ug/kg	40,132	10,200	Yes
100-H-21_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,473	3,210	No
100-H-21_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.24	1.1	No
100-H-21_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28		
100-H-21_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	0.0038	Yes
100-H-21_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.075	0.025	Yes
100-H-21_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	0.63		
100-H-21_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.1	No
100-H-21_Shallow	Rad	Uranium-238	U-238	pCi/g	0.49	1.1	No
100-H-24_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	69		
100-H-24_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,164	20,000	No
100-H-28:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	22		
100-H-28:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.21E+07	1.18E+07	Yes
100-H-28:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,300	20,000	No
100-H-28:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	540,000	132,000	Yes
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7		
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.2		
100-H-28:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	58		
100-H-28:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4		
100-H-28:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	530	1,510	No
100-H-28:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	66,400	3,890	Yes
100-H-28:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,000	18,500	No
100-H-28:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	4.3		
100-H-28:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,000	15,700	No
100-H-28:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	22,700	22,000	Yes
100-H-28:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.2		
100-H-28:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	7.2		
100-H-28:1_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	6.9		
100-H-28:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34		
100-H-28:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	3.26E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	5,700	10,200	No
100-H-28:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	512,000	No
100-H-28:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	30	13	Yes
100-H-28:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	470	Yes
100-H-28:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	23		
100-H-28:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	17,200	19,100	No
100-H-28:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	8.3		
100-H-28:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	52,700	85,100	No
100-H-28:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,200	67,800	No
100-H-28:6_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.85E+06	1.18E+07	No
100-H-28:6_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	200	130	Yes
100-H-28:6_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,300	20,000	No
100-H-28:6_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	75,800	132,000	No
100-H-28:6_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	250	1,510	No
100-H-28:6_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,300	3,890	No
100-H-28:6_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	200	563	No
100-H-28:6_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,800	18,500	No
100-H-28:6_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	15,700	No
100-H-28:6_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,000	22,000	No
100-H-28:6_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	3.26E+07	No
100-H-28:6_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	31,400	10,200	Yes

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-H-28:6_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	287,000	512,000	No
100-H-28:6_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	10	13	No
100-H-28:6_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	430	470	No
100-H-28:6_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,400	19,100	No
100-H-28:6_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,200	85,100	No
100-H-28:6_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,300	67,800	No
100-H-3_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	9.60E+06	1.18E+07	No
100-H-3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.0		
100-H-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13		
100-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	14,689	20,000	No
100-H-3_Shallow	non-Rad	Barium	7440-39-3	ug/kg	87,047	132,000	No
100-H-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	70		
100-H-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	71		
100-H-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	61		
100-H-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	63		
100-H-3_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	342	1,510	No
100-H-3_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.5		
100-H-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,684	3,890	Yes
100-H-3_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	242	563	No
100-H-3_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	17,525	18,500	No
100-H-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	85		
100-H-3_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,489	15,700	No
100-H-3_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,046	22,000	No
100-H-3_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	4.9		
100-H-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	138		
100-H-3_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No
100-H-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	47,557	10,200	Yes
100-H-3_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	305,799	512,000	No
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	257	13	Yes
100-H-3_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	453	470	No
100-H-3_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	14,736	19,100	No
100-H-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	143		
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	164,000		
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,682		
100-H-3_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,985	85,100	No
100-H-3_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,349	67,800	No
100-H-35_Shallow_Focused_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	1.18E+07	No
100-H-35_Shallow_Focused_1	non-Rad	Arsenic	7440-38-2	ug/kg	5,000	20,000	No
100-H-35_Shallow_Focused_1	non-Rad	Barium	7440-39-3	ug/kg	99,000	132,000	No
100-H-35_Shallow_Focused_1	non-Rad	Beryllium	7440-41-7	ug/kg	371	1,510	No
100-H-35_Shallow_Focused_1	non-Rad	Boron	7440-42-8	ug/kg	2,630	3,890	No
100-H-35_Shallow_Focused_1	non-Rad	Cadmium	7440-43-9	ug/kg	172	563	No
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	20,700	18,500	Yes
100-H-35_Shallow_Focused_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,590	15,700	No
100-H-35_Shallow_Focused_1	non-Rad	Copper	7440-50-8	ug/kg	15,100	22,000	No
100-H-35_Shallow_Focused_1	non-Rad	Iron	7439-89-6	ug/kg	2.02E+07	3.26E+07	No
100-H-35_Shallow_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	5,880	10,200	No
100-H-35_Shallow_Focused_1	non-Rad	Manganese	7439-96-5	ug/kg	322,000	512,000	No
100-H-35_Shallow_Focused_1	non-Rad	Molybdenum	7439-98-7	ug/kg	328	470	No
100-H-35_Shallow_Focused_1	non-Rad	Nickel	7440-02-0	ug/kg	17,100	19,100	No
100-H-35_Shallow_Focused_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,600	85,100	No
100-H-35_Shallow_Focused_1	non-Rad	Zinc	7440-66-6	ug/kg	47,400	67,800	No
100-H-35_Shallow_Focused_2	non-Rad	Aluminum	7429-90-5	ug/kg	9.82E+06	1.18E+07	No
100-H-35_Shallow_Focused_2	non-Rad	Arsenic	7440-38-2	ug/kg	4,720	20,000	No
100-H-35_Shallow_Focused_2	non-Rad	Barium	7440-39-3	ug/kg	86,300	132,000	No
100-H-35_Shallow_Focused_2	non-Rad	Beryllium	7440-41-7	ug/kg	330	1,510	No
100-H-35_Shallow_Focused_2	non-Rad	Boron	7440-42-8	ug/kg	1,930	3,890	No
100-H-35_Shallow_Focused_2	non-Rad	Cadmium	7440-43-9	ug/kg	114	563	No
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	20,900	18,500	Yes
100-H-35_Shallow_Focused_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	15,700	No
100-H-35_Shallow_Focused_2	non-Rad	Copper	7440-50-8	ug/kg	15,300	22,000	No
100-H-35_Shallow_Focused_2	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No
100-H-35_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,500	10,200	Yes
100-H-35_Shallow_Focused_2	non-Rad	Manganese	7439-96-5	ug/kg	309,000	512,000	No
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	102	13	Yes
100-H-35_Shallow_Focused_2	non-Rad	Molybdenum	7439-98-7	ug/kg	428	470	No
100-H-35_Shallow_Focused_2	non-Rad	Nickel	7440-02-0	ug/kg	18,600	19,100	No
100-H-35_Shallow_Focused_2	non-Rad	Uranium	7440-61-1	ug/kg	1,280	3,210	No
100-H-35_Shallow_Focused_2	non-Rad	Vanadium	7440-62-2	ug/kg	41,600	85,100	No
100-H-35_Shallow_Focused_2	non-Rad	Zinc	7440-66-6	ug/kg	48,000	67,800	No
100-H-35_Shallow_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.76	1.1	No
100-H-35_Shallow_Focused_2	Rad	Uranium-235	15117-96-1	pCi/g	0.058	0.11	No
100-H-35_Shallow_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.61	1.1	No
100-H-35_Shallow_Focused_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.20E+06	1.18E+07	No
100-H-35_Shallow_Focused_3	non-Rad	Arsenic	7440-38-2	ug/kg	18,500	20,000	No
100-H-35_Shallow_Focused_3	non-Rad	Barium	7440-39-3	ug/kg	62,600	132,000	No
100-H-35_Shallow_Focused_3	non-Rad	Beryllium	7440-41-7	ug/kg	200	1,510	No
100-H-35_Shallow_Focused_3	non-Rad	Boron	7440-42-8	ug/kg	1,100	3,890	No
100-H-35_Shallow_Focused_3	non-Rad	Cadmium	7440-43-9	ug/kg	154	563	No
100-H-35_Shallow_Focused_3	non-Rad	Chromium	7440-47-3	ug/kg	14,800	18,500	No
100-H-35_Shallow_Focused_3	non-Rad	Cobalt	7440-48-4	ug/kg	5,400	15,700	No
100-H-35_Shallow_Focused_3	non-Rad	Copper	7440-50-8	ug/kg	13,400	22,000	No
100-H-35_Shallow_Focused_3	non-Rad	Iron	7439-89-6	ug/kg	1.60E+07	3.26E+07	No
100-H-35_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	25,200	10,200	Yes
100-H-35_Shallow_Focused_3	non-Rad	Manganese	7439-96-5	ug/kg	253,000	512,000	No
100-H-35_Shallow_Focused_3	non-Rad	Molybdenum	7439-98-7	ug/kg	323	470	No
100-H-35_Shallow_Focused_3	non-Rad	Nickel	7440-02-0	ug/kg	13,700	19,100	No
100-H-35_Shallow_Focused_3	non-Rad	Vanadium	7440-62-2	ug/kg	43,500	85,100	No
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	94,200	67,800	Yes
100-H-37_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.60E+06	1.18E+07	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-H-37_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	13,000	20,000	No
100-H-37_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	71,000	132,000	No
100-H-37_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	970	1,510	No
100-H-37_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	82	563	No
100-H-37_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,000	18,500	No
100-H-37_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,100	15,700	No
100-H-37_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,000	22,000	No
100-H-37_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	3.26E+07	No
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	54,000	10,200	Yes
100-H-37_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	512,000	No
100-H-37_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	19	13	Yes
100-H-37_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,200	470	Yes
100-H-37_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,000	19,100	No
100-H-37_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,423	3,210	Yes
100-H-37_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	43,000	85,100	No
100-H-37_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,000	67,800	No
100-H-37_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.017	1.1	No
100-H-37_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.14	0.11	Yes
100-H-37_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2	1.1	Yes
100-H-4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.0		
100-H-4_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6		
100-H-4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	11		
100-H-4_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	3.0		
100-H-4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.91E+06	1.18E+07	No
100-H-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	28		
100-H-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13		
100-H-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,985	20,000	No
100-H-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	56,371	132,000	No
100-H-4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.1		
100-H-4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.3		
100-H-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4		
100-H-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3		
100-H-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	251	1,510	No
100-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,026	3,890	No
100-H-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	125	563	No
100-H-4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.4		
100-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,057	18,500	No
100-H-4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.8		
100-H-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,639	15,700	No
100-H-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,398	22,000	No
100-H-4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.7		
100-H-4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.0		
100-H-4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31		
100-H-4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	3.26E+07	No
100-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	27,406	10,200	Yes
100-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	263,324	512,000	No
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	408	13	Yes
100-H-4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	5.7		
100-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	466	470	No
100-H-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,166	19,100	No
100-H-4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.8		
100-H-4_Shallow	non-Rad	Selenium	7782-49-2	ug/kg	391	780	No
100-H-4_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,792		
100-H-4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,620	3,210	No
100-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	85,100	No
100-H-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	36,149	67,800	No
100-H-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.7		
100-H-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	1.1	Yes
100-H-4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.88	1.1	No
100-H-4_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.1		
100-H-4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	51		
100-H-4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.02E+06	1.18E+07	No
100-H-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	420	130	Yes
100-H-4_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	14		
100-H-4_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	73		
100-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,800	20,000	No
100-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	163,000	132,000	Yes
100-H-4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75		
100-H-4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	53		
100-H-4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44		
100-H-4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	33		
100-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	310	1,510	No
100-H-4_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.4		
100-H-4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	27		
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	19,400	3,890	Yes
100-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	260	563	No
100-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	17,500	18,500	No
100-H-4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	41		
100-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,900	15,700	No
100-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,300	22,000	Yes
100-H-4_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6		
100-H-4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	17		
100-H-4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	49		
100-H-4_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	4.2		
100-H-4_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	20		
100-H-4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.24E+07	3.26E+07	No
100-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	27,400	10,200	Yes
100-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	364,000	512,000	No
100-H-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes
100-H-4_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.9		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-H-4_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	14		
100-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	730	470	Yes
100-H-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,200	19,100	No
100-H-4_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	46		
100-H-4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	410	780	No
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300		
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	188,000		
100-H-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	10,100	3,210	Yes
100-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	51,500	85,100	No
100-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	62,500	67,800	No
100-H-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.5	1.1	Yes
100-H-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.3	1.1	Yes
100-H-40_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.96E+06	1.18E+07	No
100-H-40_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	2,160	130	Yes
100-H-40_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,830	20,000	No
100-H-40_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	68,600	132,000	No
100-H-40_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	19		
100-H-40_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	29		
100-H-40_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	133		
100-H-40_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.8		
100-H-40_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	225	1,510	No
100-H-40_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,840	3,890	No
100-H-40_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	469	563	No
100-H-40_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,900	18,500	No
100-H-40_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	44		
100-H-40_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,590	15,700	No
100-H-40_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,700	22,000	Yes
100-H-40_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.1		
100-H-40_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	13		
100-H-40_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	854		
100-H-40_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31		
100-H-40_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.95E+07	3.26E+07	No
100-H-40_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,400	10,200	Yes
100-H-40_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	325,000	512,000	No
100-H-40_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	80	13	Yes
100-H-40_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	961	470	Yes
100-H-40_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,400	19,100	No
100-H-40_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	24		
100-H-40_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	170,000		
100-H-40_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	45,300	85,100	No
100-H-40_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,400	67,800	Yes
100-H-41_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	501		
100-H-41_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	344		
100-H-41_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.83E+06	1.18E+07	No
100-H-41_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	341		
100-H-41_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,020	20,000	No
100-H-41_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	86,200	132,000	No
100-H-41_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,110		
100-H-41_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	971		
100-H-41_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,270		
100-H-41_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	396		
100-H-41_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	298	1,510	No
100-H-41_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,110	3,890	No
100-H-41_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	88	563	No
100-H-41_Shallow_Focused	non-Rad	Carbazole	86-74-8	ug/kg	3,740		
100-H-41_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,500	18,500	No
100-H-41_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	854		
100-H-41_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,070	15,700	No
100-H-41_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,200	22,000	No
100-H-41_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	123		
100-H-41_Shallow_Focused	non-Rad	Dibenzofuran	132-64-9	ug/kg	1,630		
100-H-41_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2,310		
100-H-41_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	200		
100-H-41_Shallow_Focused	non-Rad	Fluoride	16984-48-8	ug/kg	500	2,810	No
100-H-41_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	200		
100-H-41_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	593		
100-H-41_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	3.26E+07	No
100-H-41_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	7,690	10,200	No
100-H-41_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	281,000	512,000	No
100-H-41_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	237	470	No
100-H-41_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	622		
100-H-41_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,300	19,100	No
100-H-41_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1,530		
100-H-41_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	40,900	85,100	No
100-H-41_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,500	67,800	No
100-H-45_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.06E+06	1.18E+07	No
100-H-45_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	288	130	Yes
100-H-45_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,430	20,000	No
100-H-45_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	32,900	132,000	No
100-H-45_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	129	1,510	No
100-H-45_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	584	3,890	No
100-H-45_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	54	563	No
100-H-45_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,910	18,500	No
100-H-45_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,180	15,700	No
100-H-45_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	10,500	22,000	No
100-H-45_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.39E+07	3.26E+07	No
100-H-45_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	1,870	10,200	No
100-H-45_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	227,000	512,000	No
100-H-45_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	262	470	No
100-H-45_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	7,780	19,100	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-H-45_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,080		
100-H-45_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	42,600	85,100	No
100-H-45_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	28,200	67,800	No
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.2		
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5		
100-H-49:2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	213		
100-H-49:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.45E+06	1.18E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	13		
100-H-49:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	332	130	Yes
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	52		
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	48		
100-H-49:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	8,910	20,000	No
100-H-49:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	175,000	132,000	Yes
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	20		
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	34		
100-H-49:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	88		
100-H-49:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17		
100-H-49:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	337	1,510	No
100-H-49:2_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	3.1		
100-H-49:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,660	3,890	Yes
100-H-49:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	255	563	No
100-H-49:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,800	18,500	Yes
100-H-49:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	316		
100-H-49:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,820	15,700	No
100-H-49:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	27,200	22,000	Yes
100-H-49:2_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	24		
100-H-49:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	248		
100-H-49:2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	89		
100-H-49:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	51		
100-H-49:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	3.26E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,200	10,200	Yes
100-H-49:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	291,000	512,000	No
100-H-49:2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	13	13	No
100-H-49:2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.6		
100-H-49:2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10		
100-H-49:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	489	470	Yes
100-H-49:2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	115		
100-H-49:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	16,600	19,100	No
100-H-49:2_Shallow_Focused	non-Rad	Nitrate	14797-55-8	ug/kg	4,400	52,000	No
100-H-49:2_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,360		
100-H-49:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	41		
100-H-49:2_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	547	167	Yes
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	63,800		
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	121,000		
100-H-49:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,900	85,100	No
100-H-49:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	96,700	67,800	Yes
100-H-49:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.6		
100-H-49:2_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.1	No
100-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	33		
100-H-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	5,900	20,000	No
100-H-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	10,600	18,500	No
100-H-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	4,200	10,200	No
100-H-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,363	3,210	No
100-H-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.43	1.1	No
100-H-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.46	1.1	No
100-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,586	20,000	No
100-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,199	18,500	No
100-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,871	10,200	Yes
100-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	72	13	Yes
100-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,869	3,210	No
100-H-5_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.072	1.1	No
100-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.63	1.1	No
100-H-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.18	0.11	Yes
100-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.62	1.1	No
100-H-50_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.70E+06	1.18E+07	No
100-H-50_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,860	20,000	No
100-H-50_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	62,000	132,000	No
100-H-50_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	272	1,510	No
100-H-50_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,420	3,890	No
100-H-50_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	140	563	No
100-H-50_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,100	18,500	No
100-H-50_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,130	15,700	No
100-H-50_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,700	22,000	No
100-H-50_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.88E+07	3.26E+07	No
100-H-50_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	12,600	10,200	Yes
100-H-50_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	284,000	512,000	No
100-H-50_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	34	13	Yes
100-H-50_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	361	470	No
100-H-50_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,600	19,100	No
100-H-50_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	257	780	No
100-H-50_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	53,200	85,100	No
100-H-50_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	45,100	67,800	No
100-H-51:4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	2.7		
100-H-51:4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.90E+06	1.18E+07	No
100-H-51:4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,940	20,000	No
100-H-51:4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	112,000	132,000	No
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.9		
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.9		
100-H-51:4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.7		
100-H-51:4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.2		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-H-51:4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	345	1,510	No
100-H-51:4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,650	3,890	No
100-H-51:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	810	563	Yes
100-H-51:4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	18,500	No
100-H-51:4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.0		
100-H-51:4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,450	15,700	No
100-H-51:4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	14,700	22,000	No
100-H-51:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.3		
100-H-51:4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.32E+07	3.26E+07	No
100-H-51:4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,470	10,200	No
100-H-51:4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	504,000	512,000	No
100-H-51:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	13	Yes
100-H-51:4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	401	470	No
100-H-51:4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	19,100	No
100-H-51:4_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	276	780	No
100-H-51:4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	46,300	85,100	No
100-H-51:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,100	67,800	Yes
100-H-51:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	37		
100-H-51:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.77E+06	1.18E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	0.92		
100-H-51:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,470	20,000	No
100-H-51:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	199,000	132,000	Yes
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.0		
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	0.5		
100-H-51:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.8		
100-H-51:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.0		
100-H-51:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	383	1,510	No
100-H-51:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	26,300	3,890	Yes
100-H-51:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	133	563	No
100-H-51:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	11,400	18,500	No
100-H-51:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16		
100-H-51:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,800	15,700	No
100-H-51:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,000	22,000	No
100-H-51:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.9		
100-H-51:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	9.2		
100-H-51:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	10		
100-H-51:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	3.26E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	6,250	10,200	No
100-H-51:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	290,000	512,000	No
100-H-51:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	440	470	No
100-H-51:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	16		
100-H-51:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,700	19,100	No
100-H-51:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	5.7		
100-H-51:5_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	221	780	No
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,900		
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	47,700		
100-H-51:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	38,600	85,100	No
100-H-51:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,300	67,800	No
100-H-53_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	7.4		
100-H-53_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.76E+06	1.18E+07	No
100-H-53_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	5,580	20,000	No
100-H-53_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	52,300	132,000	No
100-H-53_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	61		
100-H-53_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.5		
100-H-53_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.8		
100-H-53_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.3		
100-H-53_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	231	1,510	No
100-H-53_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,310	3,890	No
100-H-53_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	397	563	No
100-H-53_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	15,900	18,500	No
100-H-53_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	22		
100-H-53_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	10,500	15,700	No
100-H-53_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,800	22,000	No
100-H-53_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.1		
100-H-53_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	82		
100-H-53_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.8		
100-H-53_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,520		
100-H-53_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	24		
100-H-53_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.66E+07	3.26E+07	No
100-H-53_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	35,900	10,200	Yes
100-H-53_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	300,000	512,000	No
100-H-53_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3,840	470	Yes
100-H-53_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	6.6		
100-H-53_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,200	19,100	No
100-H-53_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	42		
100-H-53_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	35,100	85,100	No
100-H-53_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,900	67,800	Yes
100-H-53_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.15	1.1	No
100-H-7_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.84E+06	1.18E+07	No
100-H-7_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	470	130	Yes
100-H-7_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,600	20,000	No
100-H-7_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	47,200	132,000	No
100-H-7_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	330	1,510	No
100-H-7_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	930	3,890	No
100-H-7_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	110	563	No
100-H-7_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,700	18,500	No
100-H-7_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,800	15,700	No
100-H-7_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	22,000	No
100-H-7_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.98E+07	3.26E+07	No
100-H-7_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	8,900	10,200	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
100-H-7_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	264,000	512,000	No
100-H-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	620	470	Yes
100-H-7_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	9,900	19,100	No
100-H-7_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	57,100	85,100	No
100-H-7_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	39,200	67,800	No
100-H-8_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.39E+06	1.18E+07	No
100-H-8_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	520	130	Yes
100-H-8_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	7,300	20,000	No
100-H-8_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	68,100	132,000	No
100-H-8_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	440	1,510	No
100-H-8_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,200	3,890	No
100-H-8_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	340	563	No
100-H-8_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,500	18,500	No
100-H-8_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,300	15,700	No
100-H-8_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	23,400	22,000	Yes
100-H-8_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.45E+07	3.26E+07	No
100-H-8_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,800	10,200	Yes
100-H-8_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	340,000	512,000	No
100-H-8_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	310	13	Yes
100-H-8_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	930	470	Yes
100-H-8_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,200	19,100	No
100-H-8_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	63,900	85,100	No
100-H-8_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	53,500	67,800	No
116-H-1_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	6,282	20,000	No
116-H-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	23,100	10,200	Yes
116-H-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	47	1.1	Yes
116-H-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.1	0.0084	Yes
116-H-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	58		
116-H-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	6.6	0.033	Yes
116-H-1_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	0.0038	Yes
116-H-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	0.025	Yes
116-H-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	0.18	Yes
116-H-1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	6,625	20,000	No
116-H-1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,151	18,500	No
116-H-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502		
116-H-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,408	10,200	Yes
116-H-1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.42	1.1	No
116-H-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.69		
116-H-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.15	0.0038	Yes
116-H-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	0.025	Yes
116-H-1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.74	0.18	Yes
116-H-3_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,900	20,000	No
116-H-3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,960		
116-H-3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	10	1.1	Yes
116-H-3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.84	0.0084	Yes
116-H-3_Deep	Rad	Europium-152	14683-23-9	pCi/g	23		
116-H-3_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.1	0.033	Yes
116-H-3_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	8,300	20,000	No
116-H-3_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.053	1.1	No
116-H-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	0.0084	Yes
116-H-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.66		
116-H-5_Deep	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.1		
116-H-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	3.1		
116-H-5_Deep	non-Rad	Aluminum	7429-90-5	ug/kg	6.91E+06	1.18E+07	No
116-H-5_Deep	non-Rad	Anthracene	120-12-7	ug/kg	5.1		
116-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.3		
116-H-5_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	5,372	20,000	No
116-H-5_Deep	non-Rad	Barium	7440-39-3	ug/kg	67,200	132,000	No
116-H-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38		
116-H-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	41		
116-H-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	51		
116-H-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	30		
116-H-5_Deep	non-Rad	Beryllium	7440-41-7	ug/kg	104	1,510	No
116-H-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	84		
116-H-5_Deep	non-Rad	Boron	7440-42-8	ug/kg	1,200	3,890	No
116-H-5_Deep	non-Rad	Cadmium	7440-43-9	ug/kg	88	563	No
116-H-5_Deep	non-Rad	Chromium	7440-47-3	ug/kg	11,448	18,500	No
116-H-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	45		
116-H-5_Deep	non-Rad	Cobalt	7440-48-4	ug/kg	6,209	15,700	No
116-H-5_Deep	non-Rad	Copper	7440-50-8	ug/kg	15,413	22,000	No
116-H-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	69		
116-H-5_Deep	non-Rad	Fluoride	16984-48-8	ug/kg	1,092	2,810	No
116-H-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	35		
116-H-5_Deep	non-Rad	Iron	7439-89-6	ug/kg	1.69E+07	3.26E+07	No
116-H-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	16,378	10,200	Yes
116-H-5_Deep	non-Rad	Manganese	7439-96-5	ug/kg	254,139	512,000	No
116-H-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes
116-H-5_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	870	470	Yes
116-H-5_Deep	non-Rad	Nickel	7440-02-0	ug/kg	11,568	19,100	No
116-H-5_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	132,545	52,000	Yes
116-H-5_Deep	non-Rad	Nitrite	14797-65-0	ug/kg	1,300		
116-H-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	23,726		
116-H-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	77		
116-H-5_Deep	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	81,718		
116-H-5_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,878	3,210	No
116-H-5_Deep	non-Rad	Vanadium	7440-62-2	ug/kg	46,454	85,100	No
116-H-5_Deep	non-Rad	Zinc	7440-66-6	ug/kg	45,768	67,800	No
116-H-5_Deep	Rad	Carbon-14	14762-75-5	pCi/g	1.3		
116-H-5_Deep	Rad	Cesium-137	10045-97-3	pCi/g	0.59	1.1	No
116-H-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	0.0084	Yes

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-H-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.3		
116-H-5_Deep	Rad	Nickel-63	13981-37-8	pCi/g	13		
116-H-5_Deep	Rad	Tritium	10028-17-8	pCi/g	3.3		
116-H-5_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.66	1.1	No
116-H-5_Deep	Rad	Uranium-238	U-238	pCi/g	0.63	1.1	No
116-H-5_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45		
116-H-5_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	22		
116-H-5_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	6.51E+06	1.18E+07	No
116-H-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	36		
116-H-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	406	130	Yes
116-H-5_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	5,801	20,000	No
116-H-5_Overburden	non-Rad	Barium	7440-39-3	ug/kg	53,734	132,000	No
116-H-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47		
116-H-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	51		
116-H-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	52		
116-H-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	24		
116-H-5_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	173	1,510	No
116-H-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120		
116-H-5_Overburden	non-Rad	Boron	7440-42-8	ug/kg	1,458	3,890	No
116-H-5_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	68	563	No
116-H-5_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,538	18,500	No
116-H-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	69		
116-H-5_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	5,586	15,700	No
116-H-5_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,591	22,000	No
116-H-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.4		
116-H-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	130		
116-H-5_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	7.6		
116-H-5_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	799	2,810	No
116-H-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165		
116-H-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34		
116-H-5_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.68E+07	3.26E+07	No
116-H-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	16,326	10,200	Yes
116-H-5_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	258,053	512,000	No
116-H-5_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	275	470	No
116-H-5_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	25		
116-H-5_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,808	19,100	No
116-H-5_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	9,911	52,000	No
116-H-5_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	960		
116-H-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,151		
116-H-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	100		
116-H-5_Overburden	non-Rad	Silver	7440-22-4	ug/kg	156	167	No
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,200		
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,500		
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,996		
116-H-5_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,677	3,210	No
116-H-5_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	44,444	85,100	No
116-H-5_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	43,379	67,800	No
116-H-5_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.3		
116-H-5_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	1.4	0.0038	Yes
116-H-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	3.0		
116-H-5_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.1	No
116-H-5_Overburden	Rad	Uranium-238	U-238	pCi/g	0.56	1.1	No
116-H-5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45		
116-H-5_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8		
116-H-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.18E+06	1.18E+07	No
116-H-5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.7		
116-H-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	378	130	Yes
116-H-5_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.9		
116-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,405	20,000	No
116-H-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,357	132,000	No
116-H-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11		
116-H-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11		
116-H-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14		
116-H-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.8		
116-H-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	202	1,510	No
116-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,169	3,890	No
116-H-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	80	563	No
116-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,831	18,500	No
116-H-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	11		
116-H-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,335	15,700	No
116-H-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,502	22,000	No
116-H-5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6		
116-H-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	27		
116-H-5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.6		
116-H-5_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	903	2,810	No
116-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60		
116-H-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.9		
116-H-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.87E+07	3.26E+07	No
116-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	14,110	10,200	Yes
116-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	270,919	512,000	No
116-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	18	13	Yes
116-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	280	470	No
116-H-5_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	15		
116-H-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,834	19,100	No
116-H-5_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	8,424	52,000	No
116-H-5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,100		
116-H-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,266		
116-H-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	26		
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,600		
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,100		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,314		
116-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,966	3,210	No
116-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,734	85,100	No
116-H-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	48,292	67,800	No
116-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.0		
116-H-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	19		
116-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4	0.18	Yes
116-H-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	4.1		
116-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.72	1.1	No
116-H-5_Shallow	Rad	Uranium-234	13966-29-5	pCi/g	0.20	1.1	No
116-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.66	1.1	No
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	11		
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.3		
116-H-5_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	7.33E+06	1.18E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	87		
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15		
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10		
116-H-5_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	10,280	20,000	No
116-H-5_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	75,287	132,000	No
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	76		
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	59		
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	64		
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29		
116-H-5_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	142	1,510	No
116-H-5_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	122		
116-H-5_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	2,700	3,890	No
116-H-5_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	112	563	No
116-H-5_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	10,981	18,500	No
116-H-5_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	59		
116-H-5_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	6,774	15,700	No
116-H-5_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	14,733	22,000	No
116-H-5_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26		
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	400		
116-H-5_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	57		
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoride	16984-48-8	ug/kg	1,166	2,810	No
116-H-5_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	42		
116-H-5_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.78E+07	3.26E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	45,682	10,200	Yes
116-H-5_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	280,936	512,000	No
116-H-5_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	12	13	No
116-H-5_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	330	470	No
116-H-5_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,771	19,100	No
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	44,800		
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	50,900		
116-H-5_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	137		
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,400		
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	20,867		
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,039		
116-H-5_Staging Pile Area Footprint	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	703	3,210	No
116-H-5_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	47,752	85,100	No
116-H-5_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	40,271	67,800	No
116-H-5_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.068	1.1	No
116-H-5_Staging Pile Area Footprint	Rad	Technetium-99	14133-76-7	pCi/g	0.81		
116-H-5_Staging Pile Area Footprint	Rad	Uranium-234	13966-29-5	pCi/g	0.23	1.1	No
116-H-5_Staging Pile Area Footprint	Rad	Uranium-238	U-238	pCi/g	0.20	1.1	No
116-H-7_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	94		
116-H-7_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	256		
116-H-7_Deep	non-Rad	Arsenic	7440-38-2	ug/kg	3,472	20,000	No
116-H-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	55,857	18,500	Yes
116-H-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,795		
116-H-7_Deep	non-Rad	Lead	7439-92-1	ug/kg	9,132	10,200	No
116-H-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,002	13	Yes
116-H-7_Deep	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,347	3,210	No
116-H-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22	1.1	Yes
116-H-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	6.5	0.0084	Yes
116-H-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	65		
116-H-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.7	0.033	Yes
116-H-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	316		
116-H-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.099	0.0038	Yes
116-H-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.86	0.025	Yes
116-H-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.5	0.18	Yes
116-H-7_Deep	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	1.1	No
116-H-7_Deep	Rad	Uranium-238	U-238	pCi/g	0.45	1.1	No
116-H-7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	77		
116-H-7_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,172	20,000	No
116-H-7_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	11,042	18,500	No
116-H-7_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	590		
116-H-7_Overburden	non-Rad	Lead	7439-92-1	ug/kg	9,806	10,200	No
116-H-7_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,551	3,210	No
116-H-7_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.10	1.1	No
116-H-7_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.45	1.1	No
116-H-7_Overburden	Rad	Uranium-238	U-238	pCi/g	0.52	1.1	No
116-H-7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	660		
116-H-7_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,540	20,000	No
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,656	18,500	Yes
116-H-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	958		
116-H-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	20,249	10,200	Yes
116-H-7_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,583	3,210	No
116-H-7_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.1	No
116-H-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.68		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values.

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
116-H-7_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.54	1.1	No
116-H-7_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	1.1	No
116-H-9_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.65E+06	1.18E+07	No
116-H-9_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	435	130	Yes
116-H-9_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	23		
116-H-9_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.6		
116-H-9_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,605	20,000	No
116-H-9_Shallow	non-Rad	Barium	7440-39-3	ug/kg	68,597	132,000	No
116-H-9_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	272	1,510	No
116-H-9_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,253	3,890	No
116-H-9_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	100	563	No
116-H-9_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,945	18,500	No
116-H-9_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,313	15,700	No
116-H-9_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,904	22,000	No
116-H-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	262		
116-H-9_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.82E+07	3.26E+07	No
116-H-9_Shallow	non-Rad	Lead	7439-92-1	ug/kg	6,609	10,200	No
116-H-9_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	286,352	512,000	No
116-H-9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	15	13	Yes
116-H-9_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	243	470	No
116-H-9_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	10,510	19,100	No
116-H-9_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,072	3,210	No
116-H-9_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	42,911	85,100	No
116-H-9_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	37,067	67,800	No
116-H-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.027	0.0038	Yes
116-H-9_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	1.1	No
116-H-9_Shallow	Rad	Uranium-238	U-238	pCi/g	0.70	1.1	No
118-H-1:1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	75		
118-H-1:1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.43E+06	1.18E+07	No
118-H-1:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	8.2		
118-H-1:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	489	130	Yes
118-H-1:1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.5		
118-H-1:1_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10		
118-H-1:1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	5,698	20,000	No
118-H-1:1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	101,322	132,000	No
118-H-1:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	34		
118-H-1:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	57		
118-H-1:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	33		
118-H-1:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19		
118-H-1:1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	288	1,510	No
118-H-1:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	10,532	3,890	Yes
118-H-1:1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	76	563	No
118-H-1:1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,618	18,500	No
118-H-1:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	51		
118-H-1:1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,752	15,700	No
118-H-1:1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	16,317	22,000	No
118-H-1:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.6		
118-H-1:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	134		
118-H-1:1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	6.8		
118-H-1:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79		
118-H-1:1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	2.30E+07	3.26E+07	No
118-H-1:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	17,746	10,200	Yes
118-H-1:1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	344,387	512,000	No
118-H-1:1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	11	13	No
118-H-1:1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	366	470	No
118-H-1:1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	13		
118-H-1:1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	13,289	19,100	No
118-H-1:1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,753		
118-H-1:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	117		
118-H-1:1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	326	780	No
118-H-1:1_Overburden	non-Rad	Silver	7440-22-4	ug/kg	224	167	Yes
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,992		
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	15,814		
118-H-1:1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	58,281	85,100	No
118-H-1:1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	44,523	67,800	No
118-H-1:1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.4		
118-H-1:1_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.061	1.1	No
118-H-1:1_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	2.5		
118-H-1:1_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	6.57E+06	1.18E+07	No
118-H-1:1_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	3.6		
118-H-1:1_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,459	20,000	No
118-H-1:1_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	49,873	132,000	No
118-H-1:1_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11		
118-H-1:1_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.8		
118-H-1:1_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.3		
118-H-1:1_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.1		
118-H-1:1_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	181	1,510	No
118-H-1:1_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,456	3,890	No
118-H-1:1_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	50	563	No
118-H-1:1_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	10,810	18,500	No
118-H-1:1_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	11		
118-H-1:1_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	5,630	15,700	No
118-H-1:1_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	12,893	22,000	No
118-H-1:1_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.4		
118-H-1:1_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	17		
118-H-1:1_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	1.5		
118-H-1:1_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.5		
118-H-1:1_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.65E+07	3.26E+07	No
118-H-1:1_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	6,609	10,200	No
118-H-1:1_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	252,370	512,000	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-H-1:1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	18	13	Yes
118-H-1:1_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	249	470	No
118-H-1:1_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	3.3		
118-H-1:1_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,583	19,100	No
118-H-1:1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,340		
118-H-1:1_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	36		
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,000	780	Yes
118-H-1:1_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,315		
118-H-1:1_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	43,653	85,100	No
118-H-1:1_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	33,577	67,800	No
118-H-1:1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	1.9		
118-H-1:1_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.17	1.1	No
118-H-1:1_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	0.0084	Yes
118-H-1:1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.21		
118-H-1:1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.8	0.025	Yes
118-H-1:1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	0.18	Yes
118-H-1:1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	3.4		
118-H-1:1_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.8		
118-H-1:1_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.69E+06	1.18E+07	No
118-H-1:1_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	3.0		
118-H-1:1_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	257	130	Yes
118-H-1:1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.1		
118-H-1:1_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7		
118-H-1:1_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,887	20,000	No
118-H-1:1_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	51,004	132,000	No
118-H-1:1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.1		
118-H-1:1_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.3		
118-H-1:1_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.7		
118-H-1:1_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3		
118-H-1:1_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	182	1,510	No
118-H-1:1_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,763	3,890	No
118-H-1:1_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	114	563	No
118-H-1:1_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,051	18,500	No
118-H-1:1_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	3.7		
118-H-1:1_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,566	15,700	No
118-H-1:1_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,353	22,000	No
118-H-1:1_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5		
118-H-1:1_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	21		
118-H-1:1_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	1.5		
118-H-1:1_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.9		
118-H-1:1_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.69E+07	3.26E+07	No
118-H-1:1_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	3,641	10,200	No
118-H-1:1_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	254,153	512,000	No
118-H-1:1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	57	13	Yes
118-H-1:1_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	237	470	No
118-H-1:1_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,937	19,100	No
118-H-1:1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,950		
118-H-1:1_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	9.2		
118-H-1:1_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	3,880		
118-H-1:1_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,883	85,100	No
118-H-1:1_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	34,227	67,800	No
118-H-1:1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.8		
118-H-1:1_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.52	1.1	No
118-H-1:1_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.11	0.0084	Yes
118-H-1:1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.26		
118-H-1:1_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	8.6		
118-H-1:1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3	0.18	Yes
118-H-1:1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	4.0		
118-H-1:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	6.9		
118-H-1:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.20E+06	1.18E+07	No
118-H-1:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	226	130	Yes
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	29		
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	28		
118-H-1:1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,110	20,000	No
118-H-1:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	98,300	132,000	No
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.5		
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	5.3		
118-H-1:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.7		
118-H-1:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4		
118-H-1:1_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	206	1,510	No
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,160	3,890	Yes
118-H-1:1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	306	563	No
118-H-1:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	22,000	18,500	Yes
118-H-1:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	25		
118-H-1:1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	7,740	15,700	No
118-H-1:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	18,700	22,000	No
118-H-1:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.89		
118-H-1:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	17		
118-H-1:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15		
118-H-1:1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.78E+07	3.26E+07	No
118-H-1:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,900	10,200	Yes
118-H-1:1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	295,000	512,000	No
118-H-1:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	202	13	Yes
118-H-1:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	341	470	No
118-H-1:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	8.2		
118-H-1:1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	19,100	No
118-H-1:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,480		
118-H-1:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	11		
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,500		
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,300		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-H-1:1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	44,900	85,100	No
118-H-1:1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,700	67,800	No
118-H-1:1_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	2.1		
118-H-1:1_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	1.0	1.1	No
118-H-1:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	0.0084	Yes
118-H-1:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.30		
118-H-1:1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	11		
118-H-1:1_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	0.025	Yes
118-H-1:1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	0.18	Yes
118-H-1:1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	8.7		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Acenaphthene	83-32-9	ug/kg	5.3		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Aluminum	7429-90-5	ug/kg	6.42E+06	1.18E+07	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Arsenic	7440-38-2	ug/kg	3,372	20,000	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Barium	7440-39-3	ug/kg	47,506	132,000	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.6		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.9		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.2		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Beryllium	7440-41-7	ug/kg	182	1,510	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Boron	7440-42-8	ug/kg	1,217	3,890	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Cadmium	7440-43-9	ug/kg	87	563	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chromium	7440-47-3	ug/kg	12,039	18,500	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	2.1		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Cobalt	7440-48-4	ug/kg	5,255	15,700	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Copper	7440-50-8	ug/kg	13,136	22,000	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	3.8		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.8		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Iron	7439-89-6	ug/kg	1.64E+07	3.26E+07	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	5,802	10,200	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Manganese	7439-96-5	ug/kg	254,283	512,000	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	32	13	Yes
118-H-1:1_Staging Pile Area Footprint	non-Rad	Molybdenum	7439-98-7	ug/kg	223	470	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nickel	7440-02-0	ug/kg	10,780	19,100	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,861		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	5.7		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Silver	7440-22-4	ug/kg	131	167	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	7,617		
118-H-1:1_Staging Pile Area Footprint	non-Rad	Vanadium	7440-62-2	ug/kg	42,420	85,100	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Zinc	7440-66-6	ug/kg	32,172	67,800	No
118-H-1:1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	1.1		
118-H-1:1_Staging Pile Area Footprint	Rad	Cesium-137	10045-97-3	pCi/g	0.69	1.1	No
118-H-1:1_Staging Pile Area Footprint	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	0.0084	Yes
118-H-1:1_Staging Pile Area Footprint	Rad	Europium-152	14683-23-9	pCi/g	0.19		
118-H-1:1_Staging Pile Area Footprint	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.49	0.18	Yes
118-H-1:1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	2.7		
118-H-1:2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	1.18E+07	No
118-H-1:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	12		
118-H-1:2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,301	20,000	No
118-H-1:2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	88,725	132,000	No
118-H-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	28		
118-H-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33		
118-H-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24		
118-H-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	40		
118-H-1:2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	207	1,510	No
118-H-1:2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	2,323	3,890	No
118-H-1:2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	136	563	No
118-H-1:2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,971	18,500	No
118-H-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33		
118-H-1:2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	8,234	15,700	No
118-H-1:2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	17,149	22,000	No
118-H-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	76		
118-H-1:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	7.3		
118-H-1:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	544		
118-H-1:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	68		
118-H-1:2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.93E+07	3.26E+07	No
118-H-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,968	10,200	Yes
118-H-1:2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	340,196	512,000	No
118-H-1:2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	10	13	No
118-H-1:2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	300	470	No
118-H-1:2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	13,022	19,100	No
118-H-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	84		
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,600		
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,042		
118-H-1:2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	44,407	85,100	No
118-H-1:2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,743	67,800	No
118-H-1:2_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.064		
118-H-1:2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	6.95E+06	1.18E+07	No
118-H-1:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	7.6		
118-H-1:2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,700	20,000	No
118-H-1:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	53,700	132,000	No
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	43		
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33		
118-H-1:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	35		
118-H-1:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16		
118-H-1:2_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	110	1,510	No
118-H-1:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,300	3,890	No
118-H-1:2_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	120	563	No
118-H-1:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	12,000	18,500	No
118-H-1:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	35		
118-H-1:2_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,600	15,700	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-H-1:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	22,000	No
118-H-1:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	83		
118-H-1:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369		
118-H-1:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	26		
118-H-1:2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.55E+07	3.26E+07	No
118-H-1:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,700	10,200	Yes
118-H-1:2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	273,000	512,000	No
118-H-1:2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,200	19,100	No
118-H-1:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	52		
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400		
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,100		
118-H-1:2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	37,100	85,100	No
118-H-1:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,800	67,800	No
118-H-1:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	0.81		
118-H-2_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.95E+06	1.18E+07	No
118-H-2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	5,041	20,000	No
118-H-2_Shallow	non-Rad	Barium	7440-39-3	ug/kg	64,447	132,000	No
118-H-2_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	224	1,510	No
118-H-2_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,365	3,890	No
118-H-2_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	86	563	No
118-H-2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,049	18,500	No
118-H-2_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,814	15,700	No
118-H-2_Shallow	non-Rad	Copper	7440-50-8	ug/kg	13,954	22,000	No
118-H-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	171		
118-H-2_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.72E+07	3.26E+07	No
118-H-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,481	10,200	Yes
118-H-2_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	266,309	512,000	No
118-H-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	13	Yes
118-H-2_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	309	470	No
118-H-2_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,619	19,100	No
118-H-2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,689	3,210	No
118-H-2_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	41,613	85,100	No
118-H-2_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	34,224	67,800	No
118-H-2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.30	1.1	No
118-H-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	0.0084	Yes
118-H-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	13		
118-H-2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.52	1.1	No
118-H-2_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.032	0.11	No
118-H-2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.57	1.1	No
118-H-3_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	9.41E+06	1.18E+07	No
118-H-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	743	130	Yes
118-H-3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	55		
118-H-3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	15,852	20,000	No
118-H-3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	83,791	132,000	No
118-H-3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	321	1,510	No
118-H-3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	3,104	3,890	No
118-H-3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	153	563	No
118-H-3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,218	18,500	No
118-H-3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,931	15,700	No
118-H-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	23,535	22,000	Yes
118-H-3_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80		
118-H-3_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.26E+07	No
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	57,642	10,200	Yes
118-H-3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	345,494	512,000	No
118-H-3_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	11	13	No
118-H-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	1,412	470	Yes
118-H-3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	14,747	19,100	No
118-H-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	417	167	Yes
118-H-3_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,864	3,210	No
118-H-3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	45,491	85,100	No
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	132,913	67,800	Yes
118-H-3_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	1.1	No
118-H-3_Shallow_1	Rad	Uranium-235	15117-96-1	pCi/g	0.033	0.11	No
118-H-3_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.63	1.1	No
118-H-3_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.49E+06	1.18E+07	No
118-H-3_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4		
118-H-3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	3,014	20,000	No
118-H-3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	73,070	132,000	No
118-H-3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	261	1,510	No
118-H-3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,578	3,890	No
118-H-3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	97	563	No
118-H-3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,622	18,500	No
118-H-3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,141	15,700	No
118-H-3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,147	22,000	No
118-H-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	400		
118-H-3_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.81E+07	3.26E+07	No
118-H-3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	6,789	10,200	No
118-H-3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	300,387	512,000	No
118-H-3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	15	13	Yes
118-H-3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	280	470	No
118-H-3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,769	19,100	No
118-H-3_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,910	3,210	No
118-H-3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	45,329	85,100	No
118-H-3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	38,757	67,800	No
118-H-3_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.1	No
118-H-3_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.64	1.1	No
118-H-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	7.10E+06	1.18E+07	No
118-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,800	20,000	No
118-H-3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	56,700	132,000	No
118-H-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	211	1,510	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	2,630	3,890	No
118-H-3_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	81	563	No
118-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,110	18,500	No
118-H-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,690	15,700	No
118-H-3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	15,100	22,000	No
118-H-3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.66E+07	3.26E+07	No
118-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,600	10,200	Yes
118-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	255,000	512,000	No
118-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	363	470	No
118-H-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,550	19,100	No
118-H-3_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,819	3,210	No
118-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	48,300	85,100	No
118-H-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	36,900	67,800	No
118-H-3_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.23	1.1	No
118-H-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.53	0.0084	Yes
118-H-3_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	8.8		
118-H-3_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	1.1	No
118-H-3_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.95	1.1	No
118-H-4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	7.89E+06	1.18E+07	No
118-H-4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,442	20,000	No
118-H-4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	66,445	132,000	No
118-H-4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	228	1,510	No
118-H-4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,534	3,890	No
118-H-4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	132	563	No
118-H-4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	11,715	18,500	No
118-H-4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,894	15,700	No
118-H-4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,054	22,000	No
118-H-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	90		
118-H-4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.84E+07	3.26E+07	No
118-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	9,065	10,200	No
118-H-4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	279,088	512,000	No
118-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	13	Yes
118-H-4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	437	470	No
118-H-4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,015	19,100	No
118-H-4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	45,964	85,100	No
118-H-4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	38,843	67,800	No
118-H-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.1	1.1	Yes
118-H-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.10	0.0084	Yes
118-H-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.3	0.18	Yes
118-H-4_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.70E+06	1.18E+07	No
118-H-4_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	2,100	20,000	No
118-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	46,300	132,000	No
118-H-4_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	148	1,510	No
118-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,440	3,890	No
118-H-4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	113	563	No
118-H-4_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,900	18,500	No
118-H-4_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,520	15,700	No
118-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	12,600	22,000	No
118-H-4_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.42E+07	3.26E+07	No
118-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,330	10,200	No
118-H-4_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	222,000	512,000	No
118-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	424	470	No
118-H-4_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	8,730	19,100	No
118-H-4_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,000	85,100	No
118-H-4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	40,300	67,800	No
118-H-4_Shallow_Focused	Rad	Cesium-137	10045-97-3	pCi/g	0.25	1.1	No
118-H-4_Staging Pile Area	non-Rad	Aluminum	7429-90-5	ug/kg	6.03E+06	1.18E+07	No
118-H-4_Staging Pile Area	non-Rad	Arsenic	7440-38-2	ug/kg	3,913	20,000	No
118-H-4_Staging Pile Area	non-Rad	Barium	7440-39-3	ug/kg	63,087	132,000	No
118-H-4_Staging Pile Area	non-Rad	Beryllium	7440-41-7	ug/kg	176	1,510	No
118-H-4_Staging Pile Area	non-Rad	Boron	7440-42-8	ug/kg	2,987	3,890	No
118-H-4_Staging Pile Area	non-Rad	Cadmium	7440-43-9	ug/kg	170	563	No
118-H-4_Staging Pile Area	non-Rad	Chromium	7440-47-3	ug/kg	9,780	18,500	No
118-H-4_Staging Pile Area	non-Rad	Cobalt	7440-48-4	ug/kg	6,100	15,700	No
118-H-4_Staging Pile Area	non-Rad	Copper	7440-50-8	ug/kg	14,864	22,000	No
118-H-4_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	150		
118-H-4_Staging Pile Area	non-Rad	Iron	7439-89-6	ug/kg	1.80E+07	3.26E+07	No
118-H-4_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	28,136	10,200	Yes
118-H-4_Staging Pile Area	non-Rad	Manganese	7439-96-5	ug/kg	258,296	512,000	No
118-H-4_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	482	470	Yes
118-H-4_Staging Pile Area	non-Rad	Nickel	7440-02-0	ug/kg	9,598	19,100	No
118-H-4_Staging Pile Area	non-Rad	Vanadium	7440-62-2	ug/kg	48,115	85,100	No
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	72,799	67,800	Yes
118-H-4_Staging Pile Area	Rad	Cesium-137	10045-97-3	pCi/g	0.20	1.1	No
118-H-5_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	6.59E+06	1.18E+07	No
118-H-5_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,597	20,000	No
118-H-5_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,388	132,000	No
118-H-5_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	232	1,510	No
118-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	6,246	3,890	Yes
118-H-5_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	57	563	No
118-H-5_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,718	18,500	No
118-H-5_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	5,765	15,700	No
118-H-5_Shallow	non-Rad	Copper	7440-50-8	ug/kg	14,038	22,000	No
118-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369		
118-H-5_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.68E+07	3.26E+07	No
118-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,128	10,200	No
118-H-5_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	276,172	512,000	No
118-H-5_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	329	470	No
118-H-5_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	9,970	19,100	No
118-H-5_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,871	3,210	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-H-5_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,149	85,100	No
118-H-5_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	36,296	67,800	No
118-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.8		
118-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	0.18	Yes
118-H-5_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	1.1	No
118-H-5_Shallow	Rad	Uranium-238	U-238	pCi/g	0.63	1.1	No
118-H-5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.88E+06	1.18E+07	No
118-H-5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	4,490	20,000	No
118-H-5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	46,100	132,000	No
118-H-5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	197	1,510	No
118-H-5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,290	3,890	No
118-H-5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	47	563	No
118-H-5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	10,500	18,500	No
118-H-5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	5,490	15,700	No
118-H-5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,700	22,000	No
118-H-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280		
118-H-5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.57E+07	3.26E+07	No
118-H-5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	9,240	10,200	No
118-H-5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	257,000	512,000	No
118-H-5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	277	470	No
118-H-5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	10,600	19,100	No
118-H-5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,105	3,210	No
118-H-5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	39,400	85,100	No
118-H-5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	33,900	67,800	No
118-H-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	1.1	Yes
118-H-5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.71	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,500		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Lead	7439-92-1	ug/kg	22,400	10,200	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,286	3,210	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	0.27		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	5.0	1.1	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	0.0084	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	1.3		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.052		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	15		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.97	0.025	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	5.6	0.18	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Uranium-238	U-238	pCi/g	0.77	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	17		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	940		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Lead	7439-92-1	ug/kg	19,900	10,200	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,649	3,210	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	0.56		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	25		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cesium-137	10045-97-3	pCi/g	20	1.1	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	0.0084	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	3.4		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	0.43	0.033	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Neptunium-237	13994-20-2	pCi/g	0.036		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	43		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.0	0.025	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.3	0.18	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Tritium	10028-17-8	pCi/g	0.25		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.55	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-235	15117-96-1	pCi/g	0.037	0.11	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Uranium-238	U-238	pCi/g	0.55	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,396	3,210	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Cesium-137	10045-97-3	pCi/g	0.39	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.57	0.18	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Tritium	10028-17-8	pCi/g	0.57		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Uranium-233/234	U-233/234	pCi/g	0.40	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Uranium-238	U-238	pCi/g	0.47	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	34,300	10,200	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,721	3,210	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.30		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.3	1.1	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	0.0084	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	5.2		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-154	15585-10-1	pCi/g	0.66	0.033	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Neptunium-237	13994-20-2	pCi/g	0.029		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	25		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.40	0.025	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.63	0.18	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-235	15117-96-1	pCi/g	0.038	0.11	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Uranium-238	U-238	pCi/g	0.58	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,542	3,210	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	1.2	1.1	Yes
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.033		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	15		
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.59	1.1	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Uranium-238	U-238	pCi/g	0.52	1.1	No
118-H-6:4_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	5.37E+06	1.18E+07	No
118-H-6:4_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	3,176	20,000	No
118-H-6:4_Overburden	non-Rad	Barium	7440-39-3	ug/kg	57,934	132,000	No
118-H-6:4_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	167	1,510	No
118-H-6:4_Overburden	non-Rad	Boron	7440-42-8	ug/kg	809	3,890	No
118-H-6:4_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	86	563	No
118-H-6:4_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	9,710	18,500	No
118-H-6:4_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,242	15,700	No
118-H-6:4_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,371	22,000	No
118-H-6:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	127		
118-H-6:4_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.82E+07	3.26E+07	No
118-H-6:4_Overburden	non-Rad	Lead	7439-92-1	ug/kg	4,138	10,200	No
118-H-6:4_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	265,613	512,000	No
118-H-6:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	24	13	Yes
118-H-6:4_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	327	470	No
118-H-6:4_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	10,985	19,100	No
118-H-6:4_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,569	3,210	No
118-H-6:4_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	45,939	85,100	No
118-H-6:4_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	38,240	67,800	No
118-H-6:4_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.18	1.1	No
118-H-6:4_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.93		
118-H-6:4_Overburden	Rad	Neptunium-237	13994-20-2	pCi/g	0.077		
118-H-6:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.48	0.18	Yes
118-H-6:4_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.47	1.1	No
118-H-6:4_Overburden	Rad	Uranium-238	U-238	pCi/g	0.53	1.1	No
118-H-6:4_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	5.83E+06	1.18E+07	No
118-H-6:4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	3,849	20,000	No
118-H-6:4_Shallow	non-Rad	Barium	7440-39-3	ug/kg	61,215	132,000	No
118-H-6:4_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	188	1,510	No
118-H-6:4_Shallow	non-Rad	Boron	7440-42-8	ug/kg	633	3,890	No
118-H-6:4_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	100	563	No
118-H-6:4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,218	18,500	No
118-H-6:4_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,711	15,700	No
118-H-6:4_Shallow	non-Rad	Copper	7440-50-8	ug/kg	19,414	22,000	No
118-H-6:4_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	3.26E+07	No
118-H-6:4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	8,409	10,200	No
118-H-6:4_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	251,118	512,000	No
118-H-6:4_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	442	470	No
118-H-6:4_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,521	19,100	No
118-H-6:4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,653	3,210	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-H-6:4_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	48,568	85,100	No
118-H-6:4_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,342	67,800	No
118-H-6:4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.12	1.1	No
118-H-6:4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.57	1.1	No
118-H-6:4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.56	1.1	No
118-H-6:5_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	5.8		
118-H-6:5_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.02E+07	1.18E+07	No
118-H-6:5_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	2.8		
118-H-6:5_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	664	130	Yes
118-H-6:5_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10		
118-H-6:5_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.4		
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	39,809	20,000	Yes
118-H-6:5_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	87,997	132,000	No
118-H-6:5_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23		
118-H-6:5_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24		
118-H-6:5_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	26		
118-H-6:5_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13		
118-H-6:5_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	319	1,510	No
118-H-6:5_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	2,401	3,890	No
118-H-6:5_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	75	563	No
118-H-6:5_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,672	18,500	No
118-H-6:5_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	19		
118-H-6:5_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,195	15,700	No
118-H-6:5_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,954	22,000	No
118-H-6:5_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.2		
118-H-6:5_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	78		
118-H-6:5_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	2.7		
118-H-6:5_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80		
118-H-6:5_Shallow_1	non-Rad	indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	21		
118-H-6:5_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.26E+07	No
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	171,632	10,200	Yes
118-H-6:5_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	338,381	512,000	No
118-H-6:5_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	485	470	Yes
118-H-6:5_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	16		
118-H-6:5_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	12,228	19,100	No
118-H-6:5_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	66		
118-H-6:5_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,426		
118-H-6:5_Shallow_1	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,998	3,210	No
118-H-6:5_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	50,095	85,100	No
118-H-6:5_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	46,713	67,800	No
118-H-6:5_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	7.1		
118-H-6:5_Shallow_1	Rad	Cesium-137	10045-97-3	pCi/g	0.18	1.1	No
118-H-6:5_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	0.38		
118-H-6:5_Shallow_1	Rad	Uranium-233/234	U-233/234	pCi/g	0.69	1.1	No
118-H-6:5_Shallow_1	Rad	Uranium-238	U-238	pCi/g	0.67	1.1	No
118-H-6:5_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	24		
118-H-6:5_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	8.27E+06	1.18E+07	No
118-H-6:5_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	9.7		
118-H-6:5_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	464	130	Yes
118-H-6:5_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	6,824	20,000	No
118-H-6:5_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	111,681	132,000	No
118-H-6:5_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	98		
118-H-6:5_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	69		
118-H-6:5_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	204		
118-H-6:5_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	62		
118-H-6:5_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	239	1,510	No
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	12,190	3,890	Yes
118-H-6:5_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	88	563	No
118-H-6:5_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	11,953	18,500	No
118-H-6:5_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	121		
118-H-6:5_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,641	15,700	No
118-H-6:5_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	15,897	22,000	No
118-H-6:5_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.4		
118-H-6:5_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	707		
118-H-6:5_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	5.6		
118-H-6:5_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60		
118-H-6:5_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41		
118-H-6:5_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.86E+07	3.26E+07	No
118-H-6:5_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	13,861	10,200	Yes
118-H-6:5_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	310,415	512,000	No
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	167	13	Yes
118-H-6:5_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	467	470	No
118-H-6:5_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	44		
118-H-6:5_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,980	19,100	No
118-H-6:5_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	254		
118-H-6:5_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	38,884		
118-H-6:5_Shallow_2	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,777	3,210	No
118-H-6:5_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	53,432	85,100	No
118-H-6:5_Shallow_2	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.1		
118-H-6:5_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	44,927	67,800	No
118-H-6:5_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.4		
118-H-6:5_Shallow_2	Rad	Cesium-137	10045-97-3	pCi/g	0.100	1.1	No
118-H-6:5_Shallow_2	Rad	Technetium-99	14133-76-7	pCi/g	0.40		
118-H-6:5_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	6.7		
118-H-6:5_Shallow_2	Rad	Uranium-233/234	U-233/234	pCi/g	0.60	1.1	No
118-H-6:5_Shallow_2	Rad	Uranium-238	U-238	pCi/g	0.59	1.1	No
118-H-6:5_Shallow_3	non-Rad	2-Hexanone	591-78-6	ug/kg	4.7		
118-H-6:5_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8		
118-H-6:5_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	7.40E+06	1.18E+07	No
118-H-6:5_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	2.4		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
118-H-6:5_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	505	130	Yes
118-H-6:5_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	4,522	20,000	No
118-H-6:5_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	62,837	132,000	No
118-H-6:5_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.2		
118-H-6:5_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.7		
118-H-6:5_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.2		
118-H-6:5_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.5		
118-H-6:5_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	211	1,510	No
118-H-6:5_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	1,892	3,890	No
118-H-6:5_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	97	563	No
118-H-6:5_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	10,827	18,500	No
118-H-6:5_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	3.2		
118-H-6:5_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,132	15,700	No
118-H-6:5_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	13,821	22,000	No
118-H-6:5_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.98		
118-H-6:5_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	9.5		
118-H-6:5_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9		
118-H-6:5_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.74E+07	3.26E+07	No
118-H-6:5_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	11,233	10,200	Yes
118-H-6:5_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	281,265	512,000	No
118-H-6:5_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.6		
118-H-6:5_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	374	470	No
118-H-6:5_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	42		
118-H-6:5_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,882	19,100	No
118-H-6:5_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	10		
118-H-6:5_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,695		
118-H-6:5_Shallow_3	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,234	3,210	No
118-H-6:5_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,611	85,100	No
118-H-6:5_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,700	67,800	No
118-H-6:5_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	0.96		
118-H-6:5_Shallow_3	Rad	Cesium-137	10045-97-3	pCi/g	0.20	1.1	No
118-H-6:5_Shallow_3	Rad	Tritium	10028-17-8	pCi/g	7.0		
118-H-6:5_Shallow_3	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	1.1	No
118-H-6:5_Shallow_3	Rad	Uranium-238	U-238	pCi/g	0.75	1.1	No
118-H-6:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	8.3		
118-H-6:5_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	8.75E+06	1.18E+07	No
118-H-6:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	4.9		
118-H-6:5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	592	130	Yes
118-H-6:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	27,000	20,000	Yes
118-H-6:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	65,600	132,000	No
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	53		
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	40		
118-H-6:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56		
118-H-6:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27		
118-H-6:5_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	251	1,510	No
118-H-6:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	1,710	3,890	No
118-H-6:5_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	103	563	No
118-H-6:5_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,000	18,500	No
118-H-6:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	47		
118-H-6:5_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	6,700	15,700	No
118-H-6:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	34,500	22,000	Yes
118-H-6:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.5		
118-H-6:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	171		
118-H-6:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	3.7		
118-H-6:5_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31		
118-H-6:5_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	3.26E+07	No
118-H-6:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	114,000	10,200	Yes
118-H-6:5_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	311,000	512,000	No
118-H-6:5_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	439	470	No
118-H-6:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	10		
118-H-6:5_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	12,600	19,100	No
118-H-6:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	149		
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,000		
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - dlesel range extended to C36	TPHDIESELEXT	ug/kg	24,000		
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - gasoline range	TPHGASOLINE	ug/kg	470		
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	41,600		
118-H-6:5_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,054	3,210	No
118-H-6:5_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	49,400	85,100	No
118-H-6:5_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	46,400	67,800	No
118-H-6:5_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.2		
118-H-6:5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	4.1		
118-H-6:5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	0.93	1.1	No
118-H-6:5_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	0.69	1.1	No
128-H-1_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.29		
128-H-1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	4.4		
128-H-1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.54E+06	1.18E+07	No
128-H-1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	3.1		
128-H-1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.1		
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	40,542	20,000	Yes
128-H-1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	85,541	132,000	No
128-H-1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	30		
128-H-1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58		
128-H-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39		
128-H-1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19		
128-H-1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	274	1,510	No
128-H-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	144		
128-H-1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	2,799	3,890	No
128-H-1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	177	563	No
128-H-1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	13,085	18,500	No
128-H-1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	29		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
128-H-1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,539	15,700	No
128-H-1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	13,458	22,000	No
128-H-1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6		
128-H-1_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	1.3		
128-H-1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	98		
128-H-1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	2.6		
128-H-1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	39		
128-H-1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.85E+07	3.26E+07	No
128-H-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	253,830	10,200	Yes
128-H-1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	313,886	512,000	No
128-H-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	13	Yes
128-H-1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	391	470	No
128-H-1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	5.5		
128-H-1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,022	19,100	No
128-H-1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	95		
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,400		
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000		
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	39,451		
128-H-1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	47,044	85,100	No
128-H-1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	49,389	67,800	No
128-H-1_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9		
128-H-1_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	26		
128-H-1_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	9.87E+06	1.18E+07	No
128-H-1_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	3.5		
128-H-1_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	239	130	Yes
128-H-1_Shallow_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.4		
128-H-1_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	10,642	20,000	No
128-H-1_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	102,210	132,000	No
128-H-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	50		
128-H-1_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	60		
128-H-1_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	59		
128-H-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29		
128-H-1_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	297	1,510	No
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	4,922	3,890	Yes
128-H-1_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	152	563	No
128-H-1_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,634	18,500	No
128-H-1_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	49		
128-H-1_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	6,720	15,700	No
128-H-1_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	14,071	22,000	No
128-H-1_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.6		
128-H-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	154		
128-H-1_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	4.3		
128-H-1_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170		
128-H-1_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41		
128-H-1_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	1.84E+07	3.26E+07	No
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	65,620	10,200	Yes
128-H-1_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	298,334	512,000	No
128-H-1_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	30	13	Yes
128-H-1_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	347	470	No
128-H-1_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,942	19,100	No
128-H-1_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	102		
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,742		
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	19,397		
128-H-1_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	46,141	85,100	No
128-H-1_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	43,831	67,800	No
128-H-1_Shallow_4	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.5		
128-H-1_Shallow_4	non-Rad	Acenaphthene	83-32-9	ug/kg	15		
128-H-1_Shallow_4	non-Rad	Aluminum	7429-90-5	ug/kg	1.02E+07	1.18E+07	No
128-H-1_Shallow_4	non-Rad	Anthracene	120-12-7	ug/kg	1.3		
128-H-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.4		
128-H-1_Shallow_4	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19		
128-H-1_Shallow_4	non-Rad	Arsenic	7440-38-2	ug/kg	5,365	20,000	No
128-H-1_Shallow_4	non-Rad	Barium	7440-39-3	ug/kg	95,142	132,000	No
128-H-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.9		
128-H-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11		
128-H-1_Shallow_4	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11		
128-H-1_Shallow_4	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3		
128-H-1_Shallow_4	non-Rad	Beryllium	7440-41-7	ug/kg	309	1,510	No
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	4,462	3,890	Yes
128-H-1_Shallow_4	non-Rad	Cadmium	7440-43-9	ug/kg	163	563	No
128-H-1_Shallow_4	non-Rad	Chromium	7440-47-3	ug/kg	14,369	18,500	No
128-H-1_Shallow_4	non-Rad	Chrysene	218-01-9	ug/kg	11		
128-H-1_Shallow_4	non-Rad	Cobalt	7440-48-4	ug/kg	6,783	15,700	No
128-H-1_Shallow_4	non-Rad	Copper	7440-50-8	ug/kg	13,865	22,000	No
128-H-1_Shallow_4	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6		
128-H-1_Shallow_4	non-Rad	Fluoranthene	206-44-0	ug/kg	28		
128-H-1_Shallow_4	non-Rad	Fluorene	86-73-7	ug/kg	4.3		
128-H-1_Shallow_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	156		
128-H-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.3		
128-H-1_Shallow_4	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.26E+07	No
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	44,536	10,200	Yes
128-H-1_Shallow_4	non-Rad	Manganese	7439-96-5	ug/kg	319,234	512,000	No
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1,021	13	Yes
128-H-1_Shallow_4	non-Rad	Molybdenum	7439-98-7	ug/kg	414	470	No
128-H-1_Shallow_4	non-Rad	Naphthalene	91-20-3	ug/kg	6.6		
128-H-1_Shallow_4	non-Rad	Nickel	7440-02-0	ug/kg	11,655	19,100	No
128-H-1_Shallow_4	non-Rad	Pyrene	129-00-0	ug/kg	18		
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	10,082		
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	48,270		
128-H-1_Shallow_4	non-Rad	Vanadium	7440-62-2	ug/kg	51,297	85,100	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
128-H-1_Shallow_4	non-Rad	Zinc	7440-66-6	ug/kg	40,798	67,800	No
128-H-1_Shallow_5	non-Rad	Aluminum	7429-90-5	ug/kg	7.61E+06	1.18E+07	No
128-H-1_Shallow_5	non-Rad	Arsenic	7440-38-2	ug/kg	3,785	20,000	No
128-H-1_Shallow_5	non-Rad	Barium	7440-39-3	ug/kg	66,201	132,000	No
128-H-1_Shallow_5	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12		
128-H-1_Shallow_5	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13		
128-H-1_Shallow_5	non-Rad	Beryllium	7440-41-7	ug/kg	122	1,510	No
128-H-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	75		
128-H-1_Shallow_5	non-Rad	Boron	7440-42-8	ug/kg	1,534	3,890	No
128-H-1_Shallow_5	non-Rad	Cadmium	7440-43-9	ug/kg	74	563	No
128-H-1_Shallow_5	non-Rad	Chromium	7440-47-3	ug/kg	12,741	18,500	No
128-H-1_Shallow_5	non-Rad	Chrysene	218-01-9	ug/kg	15		
128-H-1_Shallow_5	non-Rad	Cobalt	7440-48-4	ug/kg	6,508	15,700	No
128-H-1_Shallow_5	non-Rad	Copper	7440-50-8	ug/kg	16,559	22,000	No
128-H-1_Shallow_5	non-Rad	Fluoranthene	206-44-0	ug/kg	23		
128-H-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	917		
128-H-1_Shallow_5	non-Rad	Iron	7439-89-6	ug/kg	1.57E+07	3.26E+07	No
128-H-1_Shallow_5	non-Rad	Lead	7439-92-1	ug/kg	6,674	10,200	No
128-H-1_Shallow_5	non-Rad	Manganese	7439-96-5	ug/kg	270,578	512,000	No
128-H-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	23	13	Yes
128-H-1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	490	470	Yes
128-H-1_Shallow_5	non-Rad	Nickel	7440-02-0	ug/kg	11,527	19,100	No
128-H-1_Shallow_5	non-Rad	Pyrene	129-00-0	ug/kg	30		
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	160,000		
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	357,773		
128-H-1_Shallow_5	non-Rad	Vanadium	7440-62-2	ug/kg	40,807	85,100	No
128-H-1_Shallow_5	non-Rad	Zinc	7440-66-6	ug/kg	36,178	67,800	No
128-H-1_Staging pile area footprint_2	non-Rad	Acenaphthene	83-32-9	ug/kg	48		
128-H-1_Staging pile area footprint_2	non-Rad	Aluminum	7429-90-5	ug/kg	1.11E+07	1.18E+07	No
128-H-1_Staging pile area footprint_2	non-Rad	Anthracene	120-12-7	ug/kg	2.4		
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.8		
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7		
128-H-1_Staging pile area footprint_2	non-Rad	Arsenic	7440-38-2	ug/kg	54,142	20,000	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Barium	7440-39-3	ug/kg	88,760	132,000	No
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12		
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	17		
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14		
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.4		
128-H-1_Staging pile area footprint_2	non-Rad	Beryllium	7440-41-7	ug/kg	338	1,510	No
128-H-1_Staging pile area footprint_2	non-Rad	Boron	7440-42-8	ug/kg	3,306	3,890	No
128-H-1_Staging pile area footprint_2	non-Rad	Cadmium	7440-43-9	ug/kg	148	563	No
128-H-1_Staging pile area footprint_2	non-Rad	Chromium	7440-47-3	ug/kg	15,220	18,500	No
128-H-1_Staging pile area footprint_2	non-Rad	Chrysene	218-01-9	ug/kg	10		
128-H-1_Staging pile area footprint_2	non-Rad	Cobalt	7440-48-4	ug/kg	6,810	15,700	No
128-H-1_Staging pile area footprint_2	non-Rad	Copper	7440-50-8	ug/kg	13,202	22,000	No
128-H-1_Staging pile area footprint_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6		
128-H-1_Staging pile area footprint_2	non-Rad	Fluoranthene	206-44-0	ug/kg	56		
128-H-1_Staging pile area footprint_2	non-Rad	Fluorene	86-73-7	ug/kg	12		
128-H-1_Staging pile area footprint_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13		
128-H-1_Staging pile area footprint_2	non-Rad	Iron	7439-89-6	ug/kg	2.05E+07	3.26E+07	No
128-H-1_Staging pile area footprint_2	non-Rad	Lead	7439-92-1	ug/kg	124,843	10,200	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Manganese	7439-96-5	ug/kg	339,768	512,000	No
128-H-1_Staging pile area footprint_2	non-Rad	Mercury	7439-97-6	ug/kg	67	13	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Molybdenum	7439-98-7	ug/kg	276	470	No
128-H-1_Staging pile area footprint_2	non-Rad	Nickel	7440-02-0	ug/kg	12,076	19,100	No
128-H-1_Staging pile area footprint_2	non-Rad	Pyrene	129-00-0	ug/kg	33		
128-H-1_Staging pile area footprint_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	23,047		
128-H-1_Staging pile area footprint_2	non-Rad	Vanadium	7440-62-2	ug/kg	46,690	85,100	No
128-H-1_Staging pile area footprint_2	non-Rad	Zinc	7440-66-6	ug/kg	43,441	67,800	No
128-H-1_Staging pile area footprint_6	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	1.18E+07	No
128-H-1_Staging pile area footprint_6	non-Rad	Arsenic	7440-38-2	ug/kg	3,730	20,000	No
128-H-1_Staging pile area footprint_6	non-Rad	Barium	7440-39-3	ug/kg	89,946	132,000	No
128-H-1_Staging pile area footprint_6	non-Rad	Beryllium	7440-41-7	ug/kg	272	1,510	No
128-H-1_Staging pile area footprint_6	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74		
128-H-1_Staging pile area footprint_6	non-Rad	Boron	7440-42-8	ug/kg	1,747	3,890	No
128-H-1_Staging pile area footprint_6	non-Rad	Cadmium	7440-43-9	ug/kg	91	563	No
128-H-1_Staging pile area footprint_6	non-Rad	Chromium	7440-47-3	ug/kg	14,174	18,500	No
128-H-1_Staging pile area footprint_6	non-Rad	Cobalt	7440-48-4	ug/kg	7,326	15,700	No
128-H-1_Staging pile area footprint_6	non-Rad	Copper	7440-50-8	ug/kg	14,851	22,000	No
128-H-1_Staging pile area footprint_6	non-Rad	Diethylphthalate	84-66-2	ug/kg	35		
128-H-1_Staging pile area footprint_6	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	233		
128-H-1_Staging pile area footprint_6	non-Rad	Iron	7439-89-6	ug/kg	2.04E+07	3.26E+07	No
128-H-1_Staging pile area footprint_6	non-Rad	Lead	7439-92-1	ug/kg	5,852	10,200	No
128-H-1_Staging pile area footprint_6	non-Rad	Manganese	7439-96-5	ug/kg	333,857	512,000	No
128-H-1_Staging pile area footprint_6	non-Rad	Mercury	7439-97-6	ug/kg	7.5	13	No
128-H-1_Staging pile area footprint_6	non-Rad	Nickel	7440-02-0	ug/kg	13,384	19,100	No
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,700		
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,494		
128-H-1_Staging pile area footprint_6	non-Rad	Vanadium	7440-62-2	ug/kg	40,715	85,100	No
128-H-1_Staging pile area footprint_6	non-Rad	Zinc	7440-66-6	ug/kg	40,935	67,800	No
128-H-2_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.05E+06	1.18E+07	No
128-H-2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	3,500	20,000	No
128-H-2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	82,600	132,000	No
128-H-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130		
128-H-2_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	22		
128-H-2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	13,800	18,500	No
128-H-2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	16,300	22,000	No
128-H-2_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	36		
128-H-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220		
128-H-2_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.18E+07	3.26E+07	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
128-H-2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	4,900	10,200	No
128-H-2_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	329,000	512,000	No
128-H-2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	4.0		
128-H-2_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	13,100	19,100	No
128-H-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,200	780	Yes
128-H-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	4,100		
128-H-2_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	58,500	85,100	No
128-H-2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	42,000	67,800	No
128-H-3_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.7		
128-H-3_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	9.75E+06	1.18E+07	No
128-H-3_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	11,000	20,000	No
128-H-3_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	81,800	132,000	No
128-H-3_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	18		
128-H-3_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37		
128-H-3_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28		
128-H-3_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27		
128-H-3_Shallow_Focused	non-Rad	Beryllium	7440-41-7	ug/kg	360	1,510	No
128-H-3_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160		
128-H-3_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	3,700	3,890	No
128-H-3_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	28		
128-H-3_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	16,900	18,500	No
128-H-3_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	20		
128-H-3_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	8,400	15,700	No
128-H-3_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	19,800	22,000	No
128-H-3_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	120		
128-H-3_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	24		
128-H-3_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	2.36E+07	3.26E+07	No
128-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	94,100	10,200	Yes
128-H-3_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	360,000	512,000	No
128-H-3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	40	13	Yes
128-H-3_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	6.0		
128-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	470	Yes
128-H-3_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	15,400	19,100	No
128-H-3_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	28		
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,000		
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,000		
128-H-3_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	60,500	85,100	No
128-H-3_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	49,800	67,800	No
1607-H1_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	8.11E+06	1.18E+07	No
1607-H1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	420	130	Yes
1607-H1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	14,321	20,000	No
1607-H1_Overburden	non-Rad	Barium	7440-39-3	ug/kg	79,109	132,000	No
1607-H1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56		
1607-H1_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	267	1,510	No
1607-H1_Overburden	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.4		
1607-H1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	282		
1607-H1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	3,760	3,890	No
1607-H1_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	108	563	No
1607-H1_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	12,120	18,500	No
1607-H1_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	6,260	15,700	No
1607-H1_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,456	22,000	No
1607-H1_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	2.0		
1607-H1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	71		
1607-H1_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	1,465	2,810	No
1607-H1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169		
1607-H1_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.83E+07	3.26E+07	No
1607-H1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	60,452	10,200	Yes
1607-H1_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	299,830	512,000	No
1607-H1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	13	Yes
1607-H1_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	449	470	No
1607-H1_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	11,144	19,100	No
1607-H1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	57,506	52,000	Yes
1607-H1_Overburden	non-Rad	Nitrogen in NItrite and Nitrate	NO2+NO3-N	ug/kg	13,996		
1607-H1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	96		
1607-H1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	979	780	Yes
1607-H1_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,112	3,210	No
1607-H1_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	46,454	85,100	No
1607-H1_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	39,273	67,800	No
1607-H1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.5		
1607-H1_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.73	1.1	No
1607-H1_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	1.1	No
1607-H1_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.0		
1607-H1_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.3		
1607-H1_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.88E+06	1.18E+07	No
1607-H1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	208	130	Yes
1607-H1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	27		
1607-H1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14		
1607-H1_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	9,508	20,000	No
1607-H1_Shallow	non-Rad	Barium	7440-39-3	ug/kg	80,403	132,000	No
1607-H1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	73		
1607-H1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	68		
1607-H1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55		
1607-H1_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	268	1,510	No
1607-H1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	211		
1607-H1_Shallow	non-Rad	Boron	7440-42-8	ug/kg	3,052	3,890	No
1607-H1_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	127	563	No
1607-H1_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	13,089	18,500	No
1607-H1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	78		
1607-H1_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	7,042	15,700	No
1607-H1_Shallow	non-Rad	Copper	7440-50-8	ug/kg	15,043	22,000	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
1607-H1_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	3.9		
1607-H1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	253		
1607-H1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	171		
1607-H1_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	4,029	2,810	Yes
1607-H1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	137		
1607-H1_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.99E+07	3.26E+07	No
1607-H1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	25,361	10,200	Yes
1607-H1_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	315,367	512,000	No
1607-H1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	97	13	Yes
1607-H1_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	383	470	No
1607-H1_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,940	19,100	No
1607-H1_Shallow	non-Rad	Nitrate	14797-55-8	ug/kg	12,618	52,000	No
1607-H1_Shallow	non-Rad	Nitrogen In Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,747		
1607-H1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	233		
1607-H1_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,781	3,210	No
1607-H1_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	50,477	85,100	No
1607-H1_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	43,328	67,800	No
1607-H1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.5		
1607-H1_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.077	1.1	No
1607-H1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.34	0.0038	Yes
1607-H1_Shallow	Rad	Tritium	10028-17-8	pCi/g	7.4		
1607-H1_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.67	1.1	No
1607-H1_Shallow	Rad	Uranium-238	U-238	pCi/g	0.60	1.1	No
1607-H1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	5.87E+06	1.18E+07	No
1607-H1_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	20,000	No
1607-H1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	40,500	132,000	No
1607-H1_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	55	563	No
1607-H1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,800	18,500	No
1607-H1_Shallow_Focused	non-Rad	Cobalt	7440-48-4	ug/kg	4,800	15,700	No
1607-H1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	13,400	22,000	No
1607-H1_Shallow_Focused	non-Rad	Iron	7439-89-6	ug/kg	1.24E+07	3.26E+07	No
1607-H1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,700	10,200	No
1607-H1_Shallow_Focused	non-Rad	Manganese	7439-96-5	ug/kg	228,000	512,000	No
1607-H1_Shallow_Focused	non-Rad	Nickel	7440-02-0	ug/kg	11,200	19,100	No
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	840		
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	570		
1607-H1_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	0.043	3,210	No
1607-H1_Shallow_Focused	non-Rad	Vanadium	7440-62-2	ug/kg	33,500	85,100	No
1607-H1_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	29,900	67,800	No
1607-H1_Shallow_Focused	Rad	Uranium-234	13966-29-5	pCi/g	0.27	1.1	No
1607-H2_Deep_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,300	20,000	No
1607-H2_Deep_Focused	non-Rad	Chromium	7440-47-3	ug/kg	9,100	18,500	No
1607-H2_Deep_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,300	10,200	No
1607-H2_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	62	13	Yes
1607-H2_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	23		
1607-H2_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	15,800	20,000	No
1607-H2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	100		
1607-H2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	130		
1607-H2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	76		
1607-H2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	94		
1607-H2_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	10,300	18,500	No
1607-H2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	120		
1607-H2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	230		
1607-H2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79		
1607-H2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	54,900	10,200	Yes
1607-H2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	220		
1607-H2_Overburden	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,116	3,210	No
1607-H2_Overburden	Rad	Cesium-137	10045-97-3	pCi/g	0.038	1.1	No
1607-H2_Overburden	Rad	Uranium-233/234	U-233/234	pCi/g	0.70	1.1	No
1607-H2_Overburden	Rad	Uranium-238	U-238	pCi/g	0.71	1.1	No
1607-H2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	160		
1607-H2_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	7,132	20,000	No
1607-H2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	24		
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	204,000	18,500	Yes
1607-H2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	110		
1607-H2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	37,629	10,200	Yes
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2,591	13	Yes
1607-H2_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	2,242	3,210	No
1607-H2_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.073	1.1	No
1607-H2_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.92	1.1	No
1607-H2_Shallow	Rad	Uranium-238	U-238	pCi/g	0.75	1.1	No
1607-H2_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	1,500	20,000	No
1607-H2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	7,900	18,500	No
1607-H2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	2,500	10,200	No
1607-H2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	13	Yes
1607-H3_Overburden	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.0		
1607-H3_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	18		
1607-H3_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5		
1607-H3_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	18		
1607-H3_Overburden	non-Rad	Aluminum	7429-90-5	ug/kg	9.07E+06	1.18E+07	No
1607-H3_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	1.7		
1607-H3_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15		
1607-H3_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4		
1607-H3_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	4,302	20,000	No
1607-H3_Overburden	non-Rad	Barium	7440-39-3	ug/kg	97,722	132,000	No
1607-H3_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.2		
1607-H3_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11		
1607-H3_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.7		
1607-H3_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9		
1607-H3_Overburden	non-Rad	Beryllium	7440-41-7	ug/kg	261	1.510	No

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
1607-H3_Overburden	non-Rad	Boron	7440-42-8	ug/kg	4,725	3,890	Yes
1607-H3_Overburden	non-Rad	Cadmium	7440-43-9	ug/kg	139	563	No
1607-H3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	49,818	18,500	Yes
1607-H3_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	12		
1607-H3_Overburden	non-Rad	Cobalt	7440-48-4	ug/kg	7,300	15,700	No
1607-H3_Overburden	non-Rad	Copper	7440-50-8	ug/kg	14,980	22,000	No
1607-H3_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.7		
1607-H3_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	3.2		
1607-H3_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	22		
1607-H3_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	1.4		
1607-H3_Overburden	non-Rad	Fluoride	16984-48-8	ug/kg	992	2,810	No
1607-H3_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	129		
1607-H3_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.0		
1607-H3_Overburden	non-Rad	Iron	7439-89-6	ug/kg	1.94E+07	3.26E+07	No
1607-H3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	21,505	10,200	Yes
1607-H3_Overburden	non-Rad	Manganese	7439-96-5	ug/kg	306,125	512,000	No
1607-H3_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	13	Yes
1607-H3_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	11		
1607-H3_Overburden	non-Rad	Molybdenum	7439-98-7	ug/kg	365	470	No
1607-H3_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	103		
1607-H3_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	21,414	19,100	Yes
1607-H3_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	43,234	52,000	No
1607-H3_Overburden	non-Rad	Nitrogen in Nitrlte and Nitrate	NO2+NO3-N	ug/kg	6,068		
1607-H3_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	16		
1607-H3_Overburden	non-Rad	Silver	7440-22-4	ug/kg	840	167	Yes
1607-H3_Overburden	non-Rad	Vanadium	7440-62-2	ug/kg	51,141	85,100	No
1607-H3_Overburden	non-Rad	Zinc	7440-66-6	ug/kg	51,058	67,800	No
1607-H3_Shallow_1	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	219		
1607-H3_Shallow_1	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	1.6		
1607-H3_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.8		
1607-H3_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	10		
1607-H3_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	409		
1607-H3_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	8.01E+06	1.18E+07	No
1607-H3_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	7.8		
1607-H3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	389	130	Yes
1607-H3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	11		
1607-H3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19		
1607-H3_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	3,240	20,000	No
1607-H3_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	70,120	132,000	No
1607-H3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11		
1607-H3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.6		
1607-H3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.7		
1607-H3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.2		
1607-H3_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	245	1,510	No
1607-H3_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	4.6		
1607-H3_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	1,945	3,890	No
1607-H3_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	121	563	No
1607-H3_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	12,104	18,500	No
1607-H3_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	43		
1607-H3_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	6,690	15,700	No
1607-H3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	13,285	22,000	No
1607-H3_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.3		
1607-H3_Shallow_1	non-Rad	Endosulfan I	959-98-8	ug/kg	3.0		
1607-H3_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	69		
1607-H3_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	76		
1607-H3_Shallow_1	non-Rad	Fluoride	16984-48-8	ug/kg	1,326	2,810	No
1607-H3_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	1.87E+07	3.26E+07	No
1607-H3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	9,027	10,200	No
1607-H3_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	287,009	512,000	No
1607-H3_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	9.0	13	No
1607-H3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	441	470	No
1607-H3_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	169		
1607-H3_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	10,739	19,100	No
1607-H3_Shallow_1	non-Rad	Nltrate	14797-55-8	ug/kg	6,544	52,000	No
1607-H3_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,980		
1607-H3_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	22		
1607-H3_Shallow_1	non-Rad	Selenlum	7782-49-2	ug/kg	300	780	No
1607-H3_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	51,055	85,100	No
1607-H3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	58,150	67,800	No
1607-H3_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	10		
1607-H3_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	6.71E+06	1.18E+07	No
1607-H3_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	2,275	20,000	No
1607-H3_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	50,645	132,000	No
1607-H3_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	197	1,510	No
1607-H3_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	1,136	3,890	No
1607-H3_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	93	563	No
1607-H3_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	10,587	18,500	No
1607-H3_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	5,450	15,700	No
1607-H3_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	13,436	22,000	No
1607-H3_Shallow_2	non-Rad	Fluoride	16984-48-8	ug/kg	1,005	2,810	No
1607-H3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	133		
1607-H3_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.55E+07	3.26E+07	No
1607-H3_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	4,086	10,200	No
1607-H3_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	256,331	512,000	No
1607-H3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	16	13	Yes
1607-H3_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	268	470	No
1607-H3_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	7.6		
1607-H3_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	10,188	19,100	No
1607-H3_Shallow_2	non-Rad	Nitrate	14797-55-8	ug/kg	2,497	52,000	No
1607-H3_Shallow_2	non-Rad	Nitrogen in Nltrite and Nitrate	NO2+NO3-N	ug/kg	541		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
1607-H3_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	42,063	85,100	No
1607-H3_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	33,110	67,800	No
1607-H4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	100		
1607-H4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	280		
1607-H4_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	7,500	20,000	No
1607-H4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	365		
1607-H4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	381		
1607-H4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	356		
1607-H4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	355		
1607-H4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	32		
1607-H4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120		
1607-H4_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	10,200	18,500	No
1607-H4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	389		
1607-H4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	22		
1607-H4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	42		
1607-H4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,300		
1607-H4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	93		
1607-H4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	180		
1607-H4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	44,100	10,200	Yes
1607-H4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	40	13	Yes
1607-H4_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	25		
1607-H4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,200		
1607-H4_Shallow	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	1,587	3,210	No
1607-H4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	0.14	1.1	No
1607-H4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	0.61	1.1	No
1607-H4_Shallow	Rad	Uranium-238	U-238	pCi/g	0.53	1.1	No
600-151_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.70		
600-151_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.89		
600-151_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	6.8		
600-151_Shallow_1	non-Rad	Aluminum	7429-90-5	ug/kg	1.04E+07	1.18E+07	No
600-151_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	5.4		
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	31,816	20,000	Yes
600-151_Shallow_1	non-Rad	Barium	7440-39-3	ug/kg	100,704	132,000	No
600-151_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75		
600-151_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58		
600-151_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	46		
600-151_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	23		
600-151_Shallow_1	non-Rad	Beryllium	7440-41-7	ug/kg	178	1,510	No
600-151_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	4,859	3,890	Yes
600-151_Shallow_1	non-Rad	Cadmium	7440-43-9	ug/kg	286	563	No
600-151_Shallow_1	non-Rad	Chromium	7440-47-3	ug/kg	13,125	18,500	No
600-151_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	59		
600-151_Shallow_1	non-Rad	Cobalt	7440-48-4	ug/kg	7,921	15,700	No
600-151_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	22,587	22,000	Yes
600-151_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	23		
600-151_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	125		
600-151_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	6.7		
600-151_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	264		
600-151_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45		
600-151_Shallow_1	non-Rad	Iron	7439-89-6	ug/kg	2.02E+07	3.26E+07	No
600-151_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	126,984	10,200	Yes
600-151_Shallow_1	non-Rad	Manganese	7439-96-5	ug/kg	352,409	512,000	No
600-151_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	15	13	Yes
600-151_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0		
600-151_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	470	470	No
600-151_Shallow_1	non-Rad	Nickel	7440-02-0	ug/kg	13,000	19,100	No
600-151_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	159		
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	940	780	Yes
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,454		
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	30,037		
600-151_Shallow_1	non-Rad	Vanadium	7440-62-2	ug/kg	41,178	85,100	No
600-151_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	64,969	67,800	No
600-151_Shallow_2	non-Rad	2-Butanone	78-93-3	ug/kg	6.9		
600-151_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.47		
600-151_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	30		
600-151_Shallow_2	non-Rad	Aluminum	7429-90-5	ug/kg	9.99E+06	1.18E+07	No
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	59,606	20,000	Yes
600-151_Shallow_2	non-Rad	Barium	7440-39-3	ug/kg	93,206	132,000	No
600-151_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	24		
600-151_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	25		
600-151_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	25		
600-151_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16		
600-151_Shallow_2	non-Rad	Beryllium	7440-41-7	ug/kg	129	1,510	No
600-151_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	2,271	3,890	No
600-151_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	596	563	Yes
600-151_Shallow_2	non-Rad	Chromium	7440-47-3	ug/kg	12,221	18,500	No
600-151_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	29		
600-151_Shallow_2	non-Rad	Cobalt	7440-48-4	ug/kg	7,500	15,700	No
600-151_Shallow_2	non-Rad	Copper	7440-50-8	ug/kg	14,468	22,000	No
600-151_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	60		
600-151_Shallow_2	non-Rad	Iron	7439-89-6	ug/kg	1.90E+07	3.26E+07	No
600-151_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	266,765	10,200	Yes
600-151_Shallow_2	non-Rad	Manganese	7439-96-5	ug/kg	359,399	512,000	No
600-151_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	13	13	Yes
600-151_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	11		
600-151_Shallow_2	non-Rad	Molybdenum	7439-98-7	ug/kg	330	470	No
600-151_Shallow_2	non-Rad	Nickel	7440-02-0	ug/kg	11,536	19,100	No
600-151_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	72		
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,660		
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,646		

Table 7-9. Comparison of EPCs for the 100-H Source Operable Unit Waste Site Decision Units to Hanford Site Soil Background Values

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	Lognormal 90th Percentile Background Value	Is EPC > Background?
600-151_Shallow_2	non-Rad	Vanadium	7440-62-2	ug/kg	38,407	85,100	No
600-151_Shallow_2	non-Rad	Zinc	7440-66-6	ug/kg	47,156	67,800	No
600-151_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.4		
600-151_Shallow_3	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.91		
600-151_Shallow_3	non-Rad	Aluminum	7429-90-5	ug/kg	1.05E+07	1.18E+07	No
600-151_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	6.7		
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	53,961	20,000	Yes
600-151_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	215,867	132,000	Yes
600-151_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38		
600-151_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	39		
600-151_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	31		
600-151_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16		
600-151_Shallow_3	non-Rad	Beryllium	7440-41-7	ug/kg	137	1,510	No
600-151_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	2,612	3,890	No
600-151_Shallow_3	non-Rad	Cadmium	7440-43-9	ug/kg	511	563	No
600-151_Shallow_3	non-Rad	Chromium	7440-47-3	ug/kg	13,175	18,500	No
600-151_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	45		
600-151_Shallow_3	non-Rad	Cobalt	7440-48-4	ug/kg	7,686	15,700	No
600-151_Shallow_3	non-Rad	Copper	7440-50-8	ug/kg	16,047	22,000	No
600-151_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	69		
600-151_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	9.0		
600-151_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31		
600-151_Shallow_3	non-Rad	Iron	7439-89-6	ug/kg	2.03E+07	3.26E+07	No
600-151_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	276,283	10,200	Yes
600-151_Shallow_3	non-Rad	Manganese	7439-96-5	ug/kg	323,716	512,000	No
600-151_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	29	13	Yes
600-151_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4		
600-151_Shallow_3	non-Rad	Molybdenum	7439-98-7	ug/kg	370	470	No
600-151_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	18		
600-151_Shallow_3	non-Rad	Nickel	7440-02-0	ug/kg	12,315	19,100	No
600-151_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	93		
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	4,406		
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	17,034		
600-151_Shallow_3	non-Rad	Vanadium	7440-62-2	ug/kg	38,454	85,100	No
600-151_Shallow_3	non-Rad	Zinc	7440-66-6	ug/kg	62,833	67,800	No
600-152_Shallow	non-Rad	Aluminum	7429-90-5	ug/kg	8.29E+06	1.18E+07	No
600-152_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	15		
600-152_Shallow	non-Rad	Arsenic	7440-38-2	ug/kg	4,941	20,000	No
600-152_Shallow	non-Rad	Barium	7440-39-3	ug/kg	67,843	132,000	No
600-152_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	13		
600-152_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	15		
600-152_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13		
600-152_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.6		
600-152_Shallow	non-Rad	Beryllium	7440-41-7	ug/kg	279	1,510	No
600-152_Shallow	non-Rad	Boron	7440-42-8	ug/kg	1,785	3,890	No
600-152_Shallow	non-Rad	Cadmium	7440-43-9	ug/kg	81	563	No
600-152_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	12,730	18,500	No
600-152_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	10		
600-152_Shallow	non-Rad	Cobalt	7440-48-4	ug/kg	6,104	15,700	No
600-152_Shallow	non-Rad	Copper	7440-50-8	ug/kg	23,251	22,000	Yes
600-152_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.0		
600-152_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	39		
600-152_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.7		
600-152_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	10		
600-152_Shallow	non-Rad	Iron	7439-89-6	ug/kg	1.78E+07	3.26E+07	No
600-152_Shallow	non-Rad	Lead	7439-92-1	ug/kg	13,578	10,200	Yes
600-152_Shallow	non-Rad	Manganese	7439-96-5	ug/kg	299,188	512,000	No
600-152_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13	13	Yes
600-152_Shallow	non-Rad	Molybdenum	7439-98-7	ug/kg	280	470	No
600-152_Shallow	non-Rad	Nickel	7440-02-0	ug/kg	11,630	19,100	No
600-152_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	18		
600-152_Shallow	non-Rad	Vanadium	7440-62-2	ug/kg	39,512	85,100	No
600-152_Shallow	non-Rad	Zinc	7440-66-6	ug/kg	40,243	67,800	No
600-152_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.27	0.18	Yes

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-17_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	471	6,000[a]	No
100-H-17_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.50	1,989	No
100-H-21_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,472	6,000[a]	No
100-H-21_Deep	non-Rad	Lead	7439-92-1	ug/kg	17,593	--[b]	--
100-H-21_Deep	non-Rad	Mercury	7439-97-6	ug/kg	64	2.83E+06	No
100-H-21_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.4	--[b]	--
100-H-21_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.28	--[b]	--
100-H-21_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.2	--[b]	--
100-H-21_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.41	--[b]	--
100-H-21_Deep	Rad	Nickel-63	13981-37-8	pCi/g	10	1.70E+06	No
100-H-21_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.076	--[b]	--
100-H-21_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	156,531	No
100-H-21_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	813	6,000[a]	No
100-H-21_Overburden	non-Rad	Lead	7439-92-1	ug/kg	36,426	--[b]	--
100-H-21_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	2.83E+06	No
100-H-21_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[b]	--
100-H-21_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	--[b]	--
100-H-21_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	487	6,000[a]	No
100-H-21_Shallow	non-Rad	Lead	7439-92-1	ug/kg	40,132	--[b]	--
100-H-21_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[b]	--
100-H-21_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	--[b]	--
100-H-21_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.075	--[b]	--
100-H-21_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	0.63	501	No
100-H-24_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	69	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	22	2.09E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.21E+07	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	540,000	3.89E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.2	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	58	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	66,400	8.59E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	4.3	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	22,700	1.36E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.2	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	7.2	3.89E+08	No
100-H-28:1_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	6.9	2.18E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	30	2.83E+06	No
100-H-28:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	1.51E+07	No
100-H-28:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	23	1.74E+06	No
100-H-28:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	8.3	3.89E+08	No
100-H-28:6_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	200	5.59E+06	No
100-H-28:6_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	31,400	--[b]	--
100-H-3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.0	1.85E+06	No
100-H-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13	--[b]	--
100-H-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	70	--[b]	--
100-H-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	71	--[b]	--
100-H-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	61	--[b]	--
100-H-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	63	--[b]	--
100-H-3_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.5	939	No
100-H-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,684	8.59E+07	No
100-H-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	85	--[b]	--
100-H-3_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	4.9	1,466	No
100-H-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	138	3.89E+08	No
100-H-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	47,557	--[b]	--
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	257	2.83E+06	No
100-H-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	143	3.89E+08	No
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	164,000	2.00E+06[c]	No
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,682	2.00E+06[c]	No
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	20,700	--[b]	--
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	20,900	--[b]	--
100-H-35_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,500	--[b]	--
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	102	2.83E+06	No
100-H-35_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	25,200	--[b]	--
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	94,200	3.89E+08	No
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	54,000	--[b]	--
100-H-37_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	19	30,109	No
100-H-37_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,200	160,905	No
100-H-37_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,423	--[d]	--
100-H-37_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.14	--[d]	--
100-H-37_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2	--[d]	--
100-H-4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.0	74,353	No
100-H-4_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--[b]	--
100-H-4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	11	750,797	No
100-H-4_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	3.0	12,006	No
100-H-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	28	66,400	No
100-H-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13	--[b]	--
100-H-4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.1	--[b]	--
100-H-4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.3	--[b]	--
100-H-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--[b]	--
100-H-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--[b]	--
100-H-4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.4	12,006	No
100-H-4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.8	--[b]	--
100-H-4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.7	1.40E+07	No
100-H-4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.0	784,233	No
100-H-4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[b]	--
100-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	27,406	--[b]	--
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	408	101,807	No
100-H-4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	5.7	115	No
100-H-4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.8	1.40E+07	No
100-H-4_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,792	2.00E+06[c]	No
100-H-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.7	61,007	No
100-H-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[d]	--
100-H-4_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.1	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	51	750,797	No
100-H-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	420	201,203	No

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-4_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	14	66,400	No
100-H-4_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	73	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	163,000	1.40E+07	No
100-H-4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	53	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	33	--[b]	--
100-H-4_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.4	34	No
100-H-4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	27	4.67E+06	No
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	19,400	3.09E+06	No
100-H-4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	41	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,300	4.91E+06	No
100-H-4_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	17	813,653	No
100-H-4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	49	1.40E+07	No
100-H-4_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	4.2	784,233	No
100-H-4_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	20	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	27,400	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	20	101,807	No
100-H-4_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.9	8.67E+06	No
100-H-4_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	14	115	No
100-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	730	544,067	No
100-H-4_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	46	1.40E+07	No
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	2.00E+06[i]	No
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	188,000	2.00E+06[i]	No
100-H-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	10,100	--[d]	--
100-H-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.5	--[d]	--
100-H-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.3	--[d]	--
100-H-40_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	2,160	32,224	No
100-H-40_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	19	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	29	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	133	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.8	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	44	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,700	786,220	No
100-H-40_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.1	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	13	2.24E+06	No
100-H-40_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	854	125,600	No
100-H-40_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,400	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	80	16,305	No
100-H-40_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	961	87,136	No
100-H-40_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	24	2.24E+06	No
100-H-40_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	170,000	2.00E+06[i]	No
100-H-40_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,400	2.24E+06	No
100-H-41_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	501	712,673	No
100-H-41_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	344	2.09E+07	No
100-H-41_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	341	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,110	--[b]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	971	--[b]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,270	--[b]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	396	--[b]	--
100-H-41_Shallow_Focused	non-Rad	Carbazole	86-74-8	ug/kg	3,740	132,367	No
100-H-41_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	854	--[b]	--
100-H-41_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	123	--[e]	--
100-H-41_Shallow_Focused	non-Rad	Dibenzofuran	132-64-9	ug/kg	1,630	652,088	No
100-H-41_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2,310	3.89E+08	No
100-H-41_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	200	2.18E+07	No
100-H-41_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	200	6,000[a]	No
100-H-41_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	593	--[b]	--
100-H-41_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	622	1.74E+06	No
100-H-41_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1,530	3.89E+08	No
100-H-45_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	288	5.59E+06	No
100-H-45_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,080	2.00E+06[i]	No
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.2	2.07E+06	No
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	213	2.09E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	13	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	332	5.59E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	52	1.85E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	48	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	175,000	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	20	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	34	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	88	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	3.1	939	No
100-H-49:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,660	8.59E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,800	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	316	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	27,200	1.36E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	24	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	248	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	89	2.18E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	51	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,200	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.6	2.41E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	3,186	No
100-H-49:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	489	1.51E+07	No
100-H-49:2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	115	1.74E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,360	5.57E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	41	3.89E+08	No
100-H-49:2_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	547	5.86E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	63,800	2.00E+06[i]	No
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	121,000	2.00E+06[i]	No
100-H-49:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	96,700	3.89E+08	No
100-H-49:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.6	--[b]	--
100-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	33	--[b]	--

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
100-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,871	--[b]	--
100-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	72	171,114	No
100-H-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.18	--[a]	--
100-H-50_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	12,600	--[b]	--
100-H-50_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	34	2.83E+06	No
100-H-51:4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	2.7	2.09E+07	No
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.9	--[b]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.9	--[b]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.7	--[b]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.2	--[b]	--
100-H-51:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	810	296,335	No
100-H-51:4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.0	--[b]	--
100-H-51:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.3	3.89E+08	No
100-H-51:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	2.83E+06	No
100-H-51:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,100	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	37	2.09E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	0.92	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	199,000	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.0	--[b]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--[b]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.8	--[b]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.0	--[b]	--
100-H-51:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	26,300	8.59E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--[b]	--
100-H-51:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.9	--[b]	--
100-H-51:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	9.2	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	10	2.18E+07	No
100-H-51:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	16	1.74E+06	No
100-H-51:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	5.7	3.89E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,900	2.00E+06[d]	No
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	47,700	2.00E+06[c]	No
100-H-53_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	7.4	2.09E+07	No
100-H-53_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	61	--[b]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.5	--[b]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.8	--[b]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.3	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	22	--[b]	--
100-H-53_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.1	--[b]	--
100-H-53_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	82	3.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.8	2.18E+07	No
100-H-53_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,520	6,000[e]	No
100-H-53_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	24	--[b]	--
100-H-53_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	35,900	--[b]	--
100-H-53_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3,840	1.51E+07	No
100-H-53_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	6.6	1.74E+06	No
100-H-53_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	42	3.89E+08	No
100-H-53_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,900	3.89E+08	No
100-H-7_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	470	2.30E+06	No
100-H-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	620	6.22E+06	No
100-H-8_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	520	2.33E+06	No
100-H-8_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	23,400	5.69E+07	No
100-H-8_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,800	--[b]	--
100-H-8_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	310	1.18E+06	No
100-H-8_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	930	6.30E+06	No
116-H-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	23,100	--[b]	--
116-H-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	47	--[b]	--
116-H-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.1	--[c]	--
116-H-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	58	--[b]	--
116-H-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	6.6	--[b]	--
116-H-1_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	--[b]	--
116-H-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	--[b]	--
116-H-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	2,556	No
116-H-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	6,000[e]	No
116-H-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,408	--[b]	--
116-H-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.69	--[b]	--
116-H-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.15	--[b]	--
116-H-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	--[b]	--
116-H-1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.74	2,556	No
116-H-3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,960	6,000[e]	No
116-H-3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	10	--[b]	--
116-H-3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.84	--[b]	--
116-H-3_Deep	Rad	Europium-152	14683-23-9	pCi/g	23	--[b]	--
116-H-3_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.1	--[b]	--
116-H-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	--[b]	--
116-H-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.66	--[b]	--
116-H-5_Deep	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.1	23,588	No
116-H-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	3.1	--[b]	--
116-H-5_Deep	non-Rad	Anthracene	120-12-7	ug/kg	5.1	2.57E+07	No
116-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.3	--[b]	--
116-H-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38	--[b]	--
116-H-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	41	--[b]	--
116-H-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	51	--[b]	--
116-H-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	30	--[b]	--
116-H-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	84	8.57E+06	No
116-H-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	45	--[b]	--
116-H-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	69	2.57E+07	No
116-H-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	35	--[b]	--
116-H-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	16,378	--[b]	--
116-H-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	20	187,060	No
116-H-5_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	870	999,674	No
116-H-5_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	132,545	1.66E+06	No
116-H-5_Deep	non-Rad	Nitrite	14797-65-0	ug/kg	1,300	121,434	No
116-H-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	23,726	367,982	No
116-H-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	77	2.57E+07	No
116-H-5_Deep	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	81,718	2.00E+06[c]	No
116-H-5_Deep	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--[f]	--
116-H-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	--[b]	--

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-H-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.3	--[b]	--
116-H-5_Deep	Rad	Nickel-63	13981-37-8	pCi/g	13	112,094	No
116-H-5_Deep	Rad	Tritium	10028-17-8	pCi/g	3.3	1,189	No
116-H-5_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45	136,617	No
116-H-5_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	22	1.38E+06	No
116-H-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	36	2.57E+07	No
116-H-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	406	369,692	No
116-H-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[b]	--
116-H-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	51	--[b]	--
116-H-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	52	--[b]	--
116-H-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	24	--[b]	--
116-H-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	8.57E+06	No
116-H-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	69	--[b]	--
116-H-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.4	--[b]	--
116-H-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	130	2.57E+07	No
116-H-5_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	7.6	1.44E+06	No
116-H-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	6,000[a]	No
116-H-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34	--[b]	--
116-H-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	16,326	--[b]	--
116-H-5_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	25	114,808	No
116-H-5_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	960	367,982	No
116-H-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,151	367,982	No
116-H-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	100	2.57E+07	No
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,200	2.00E+06[c]	No
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,500	2.00E+06[c]	No
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,996	2.00E+06[c]	No
116-H-5_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--[b]	--
116-H-5_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	1.4	--[b]	--
116-H-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	3.0	1,189	No
116-H-5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45	136,617	No
116-H-5_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8	1.38E+06	No
116-H-5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.7	2.57E+07	No
116-H-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	378	369,692	No
116-H-5_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.9	--[b]	--
116-H-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[b]	--
116-H-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[b]	--
116-H-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[b]	--
116-H-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.8	--[b]	--
116-H-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	11	--[b]	--
116-H-5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[b]	--
116-H-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	27	2.57E+07	No
116-H-5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.6	1.44E+06	No
116-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60	6,000[a]	No
116-H-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.9	--[b]	--
116-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	14,110	--[b]	--
116-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	18	187,060	No
116-H-5_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	15	114,808	No
116-H-5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,100	367,982	No
116-H-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,266	367,982	No
116-H-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	26	2.57E+07	No
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,600	2.00E+06[c]	No
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	8,100	2.00E+06[c]	No
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,314	2.00E+06[c]	No
116-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.0	--[b]	--
116-H-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	19	112,094	No
116-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4	10,346	No
116-H-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	4.1	1,189	No
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	11	136,617	No
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.3	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	87	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15	122,004	No
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	76	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	59	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	64	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	122	8.57E+06	No
116-H-5_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	59	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	400	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	57	1.44E+06	No
116-H-5_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	42	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	45,682	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	44,800	367,982	No
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	50,900	367,982	No
116-H-5_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	137	2.57E+07	No
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,400	2.00E+06[c]	No
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	20,867	2.00E+06[c]	No
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,039	2.00E+06[c]	No
116-H-5_Staging Pile Area Footprint	Rad	Technetium-99	14133-76-7	pCi/g	0.81	33	No
116-H-7_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	94	2,891	No
116-H-7_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	256	--[b]	--
116-H-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	55,857	--[b]	--
116-H-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,795	6,000[a]	No
116-H-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,002	33,895	No
116-H-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22	--[e]	--
116-H-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	6.5	--[b]	--
116-H-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	65	--[b]	--
116-H-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.7	--[b]	--
116-H-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	316	20,311	No
116-H-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.099	--[e]	--
116-H-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.86	--[e]	--
116-H-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.5	1,875	No
116-H-7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	77	--[b]	--
116-H-7_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	590	6,000[a]	No
116-H-7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	660	--[b]	--
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,656	--[b]	--

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
116-H-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	958	6,000[a]	No
116-H-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	20,249	--[b]	--
116-H-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.68	--[c]	--
116-H-9_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	435	5.59E+06	No
116-H-9_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	23	1.85E+06	No
116-H-9_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.6	--[b]	--
116-H-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	262	6,000[a]	No
116-H-9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	15	2.83E+06	No
116-H-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.027	--[b]	--
118-H-1:1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	75	98,389	No
118-H-1:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	8.2	1.83E+06	No
118-H-1:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	489	26,367	No
118-H-1:1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.5	8,701	No
118-H-1:1_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10	--[b]	--
118-H-1:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	34	--[b]	--
118-H-1:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	57	--[b]	--
118-H-1:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	33	--[b]	--
118-H-1:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19	--[b]	--
118-H-1:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	10,532	404,872	No
118-H-1:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	51	--[b]	--
118-H-1:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.6	--[b]	--
118-H-1:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	134	1.83E+06	No
118-H-1:1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	6.8	102,770	No
118-H-1:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[b]	--
118-H-1:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	17,746	--[b]	--
118-H-1:1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	13	8,188	No
118-H-1:1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,753	26,245	No
118-H-1:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	117	1.83E+06	No
118-H-1:1_Overburden	non-Rad	Silver	7440-22-4	ug/kg	224	27,646	No
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,992	2.00E+06[f]	No
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	15,814	2.00E+06[f]	No
118-H-1:1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.4	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	2.5	98,389	No
118-H-1:1_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	3.6	1.83E+06	No
118-H-1:1_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.8	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.3	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.1	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	11	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.4	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	17	1.83E+06	No
118-H-1:1_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	1.5	102,770	No
118-H-1:1_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.5	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	18	13,341	No
118-H-1:1_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	3.3	8,188	No
118-H-1:1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,340	26,245	No
118-H-1:1_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	36	1.83E+06	No
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,000	10,455	No
118-H-1:1_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,315	2.00E+06[f]	No
118-H-1:1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	1.9	--[b]	--
118-H-1:1_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	--[b]	--
118-H-1:1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.21	--[b]	--
118-H-1:1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.8	--[b]	--
118-H-1:1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	738	No
118-H-1:1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	3.4	85	No
118-H-1:1_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.8	98,389	No
118-H-1:1_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	3.0	1.83E+06	No
118-H-1:1_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	257	26,367	No
118-H-1:1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.1	8,701	No
118-H-1:1_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.1	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.3	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.7	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	3.7	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	21	1.83E+06	No
118-H-1:1_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	1.5	102,770	No
118-H-1:1_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.9	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	57	13,341	No
118-H-1:1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,950	26,245	No
118-H-1:1_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	9.2	1.83E+06	No
118-H-1:1_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	3,880	2.00E+06[f]	No
118-H-1:1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.8	--[b]	--
118-H-1:1_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.11	--[b]	--
118-H-1:1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.26	--[b]	--
118-H-1:1_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	8.6	7,995	No
118-H-1:1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3	738	No
118-H-1:1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	4.0	85	No
118-H-1:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	6.9	98,389	No
118-H-1:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	226	26,367	No
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	29	8,701	No
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	28	--[f]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.5	--[f]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	5.3	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.7	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4	--[f]	--
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,160	404,872	No
118-H-1:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	22,000	--[f]	--

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-1:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	25	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.89	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	17	1.83E+06	No
118-H-1:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,900	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	202	13,341	No
118-H-1:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	8.2	8,188	No
118-H-1:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,480	26,245	No
118-H-1:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	11	1.83E+06	No
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,500	2.00E+06[c]	No
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,300	2.00E+06[c]	No
118-H-1:1_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	2.1	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.30	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	11	7,995	No
118-H-1:1_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	738	No
118-H-1:1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	8.7	85	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Acenaphthene	83-32-9	ug/kg	5.3	98,389	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.6	--[b]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.9	--[b]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.2	--[b]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[b]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	2.1	--[b]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	3.8	1.83E+06	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.8	--[b]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	32	13,341	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,861	26,245	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	5.7	1.83E+06	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	7,617	2.00E+06[c]	No
118-H-1:1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	1.1	--[b]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	--[b]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Europium-152	14683-23-9	pCi/g	0.19	--[b]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.49	738	No
118-H-1:1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	2.7	85	No
118-H-1:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	12	1.83E+06	No
118-H-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	28	--[b]	--
118-H-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33	--[b]	--
118-H-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--[b]	--
118-H-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	40	--[b]	--
118-H-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--[b]	--
118-H-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	76	1.83E+06	No
118-H-1:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	7.3	102,770	No
118-H-1:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	544	6,000[a]	No
118-H-1:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	68	--[b]	--
118-H-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,968	--[b]	--
118-H-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	84	1.83E+06	No
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,600	2.00E+06[c]	No
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,042	2.00E+06[c]	No
118-H-1:2_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.064	85	No
118-H-1:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	7.6	1.83E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	43	--[b]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33	--[b]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	35	--[b]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
118-H-1:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	35	--[b]	--
118-H-1:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	83	1.83E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369	6,000[a]	No
118-H-1:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	26	--[b]	--
118-H-1:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,700	--[b]	--
118-H-1:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	52	1.83E+06	No
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	2.00E+06[c]	No
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	4,100	2.00E+06[c]	No
118-H-1:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	0.81	--[b]	--
118-H-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	171	6,000[a]	No
118-H-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,481	--[b]	--
118-H-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	64,973	No
118-H-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	--[b]	--
118-H-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	13	38,934	No
118-H-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	743	50,391	No
118-H-3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	55	--[b]	--
118-H-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	23,535	1.23E+06	No
118-H-3_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80	6,000[a]	No
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	57,642	--[b]	--
118-H-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	1,412	136,262	No
118-H-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	417	52,836	No
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	132,913	3.50E+06	No
118-H-3_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[b]	--
118-H-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	400	6,000[a]	No
118-H-3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	15	25,498	No
118-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,600	--[b]	--
118-H-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.53	--[b]	--
118-H-3_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	8.8	15,279	No
118-H-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	90	6,000[a]	No
118-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	2.53E+06	No
118-H-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.1	--[b]	--
118-H-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.10	--[b]	--
118-H-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.3	139,760	No
118-H-4_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	150	6,000[a]	No
118-H-4_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	28,136	--[b]	--
118-H-4_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	482	1.35E+07	No
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	72,799	3.47E+08	No
118-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	6,246	7.67E+07	No
118-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369	6,000[a]	No
118-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.8	--[b]	--
118-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	139,760	No
118-H-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[a]	No

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[a]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,500	6,000*	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Lead	7439-92-1	ug/kg	22,400	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	0.27	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	5.0	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	1.3	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.052	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	15	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.97	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	5.6	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	17	16,935	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	940	6,000*	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Lead	7439-92-1	ug/kg	19,900	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	0.56	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	25	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cesium-137	10045-97-3	pCi/g	20	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	3.4	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	0.43	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Neptunium-237	13994-20-2	pCi/g	0.036	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	43	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.0	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.3	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Tritium	10028-17-8	pCi/g	0.25	165	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.57	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Tritium	10028-17-8	pCi/g	0.57	165	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	34,300	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.30	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.3	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	5.2	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-154	15585-10-1	pCi/g	0.66	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Neptunium-237	13994-20-2	pCi/g	0.029	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	25	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.40	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.63	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	1.2	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.033	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	15	15,559	No
118-H-6:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	127	6,000*	No
118-H-6:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	24	24,611	No
118-H-6:4_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.93	--[b]	--
118-H-6:4_Overburden	Rad	Neptunium-237	13994-20-2	pCi/g	0.077	18	No
118-H-6:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.48	1,361	No
118-H-6:5_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	5.8	181,497	No
118-H-6:5_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	2.8	3.38E+06	No
118-H-6:5_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	664	48,639	No
118-H-6:5_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	16,051	No
118-H-6:5_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.4	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	39,809	170	Yes
118-H-6:5_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	26	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	19	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.2	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	78	3.38E+06	No
118-H-6:5_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	2.7	189,580	No
118-H-6:5_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80	6,000*	No
118-H-6:5_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	21	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	171,632	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	485	131,522	No
118-H-6:5_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	16	15,105	No

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
118-H-6:5_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	66	3.38E+06	No
118-H-6:5_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,426	2.00E+06[c]	No
118-H-6:5_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	7.1	--[b]	--
118-H-6:5_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	0.38	4.4	No
118-H-6:5_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	24	181,497	No
118-H-6:5_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	9.7	3.38E+06	No
118-H-6:5_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	464	48,639	No
118-H-6:5_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	98	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	69	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	204	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	62	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	12,190	746,865	No
118-H-6:5_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	121	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.4	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	707	3.38E+06	No
118-H-6:5_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	5.6	189,580	No
118-H-6:5_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60	6,000[e]	No
118-H-6:5_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	13,861	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	167	24,611	No
118-H-6:5_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	44	15,105	No
118-H-6:5_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	254	3.38E+06	No
118-H-6:5_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	38,884	2.00E+06[c]	No
118-H-6:5_Shallow_2	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.1	34,228	No
118-H-6:5_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.4	--[b]	--
118-H-6:5_Shallow_2	Rad	Technetium-99	14133-76-7	pCi/g	0.40	4.4	No
118-H-6:5_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	6.7	156	No
118-H-6:5_Shallow_3	non-Rad	2-Hexanone	591-78-6	ug/kg	4.7	236	No
118-H-6:5_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8	181,497	No
118-H-6:5_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	2.4	3.38E+06	No
118-H-6:5_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	505	48,639	No
118-H-6:5_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.2	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.7	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.2	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.5	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	3.2	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.98	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	9.5	3.38E+06	No
118-H-6:5_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	11,233	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.6	28	No
118-H-6:5_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	42	15,105	No
118-H-6:5_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	10	3.38E+06	No
118-H-6:5_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,695	2.00E+06[c]	No
118-H-6:5_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	0.96	--[b]	--
118-H-6:5_Shallow_3	Rad	Tritium	10028-17-8	pCi/g	7.0	156	No
118-H-6:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	8.3	181,497	No
118-H-6:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	4.9	3.38E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	592	48,639	No
118-H-6:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	27,000	170	Yes
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	53	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	40	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	47	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	34,500	1.19E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.5	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	171	3.38E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	3.7	189,580	No
118-H-6:5_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	114,000	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	10	15,105	No
118-H-6:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	149	3.38E+06	No
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,000	2.00E+06[c]	No
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000	2.00E+06[c]	No
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - gasoline range	TPHGASOLINE	ug/kg	470	1.00E+06[c]	No
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	41,600	2.00E+06[c]	No
118-H-6:5_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--[b]	--
118-H-6:5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	4.1	156	No
128-H-1_Overburden	non-Rad	4,4'-DDE [Dichlorodiphenyldichloroethylene]	72-55-9	ug/kg	0.29	11,282	No
128-H-1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	4.4	113,919	No
128-H-1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	3.1	2.12E+06	No
128-H-1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.1	10,075	No
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	40,542	107	Yes
128-H-1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	30	--[b]	--
128-H-1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[b]	--
128-H-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--[b]	--
128-H-1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19	--[b]	--
128-H-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	144	707,933	No
128-H-1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	29	--[b]	--
128-H-1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6	--[b]	--
128-H-1_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	1.3	9,661	No
128-H-1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	98	2.12E+06	No
128-H-1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	2.6	118,992	No
128-H-1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	39	--[b]	--
128-H-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	253,830	--[b]	--
128-H-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	15,447	No
128-H-1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	5.5	9,481	No
128-H-1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	95	2.12E+06	No
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,400	2.00E+06[c]	No
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	24,000	2.00E+06[c]	No
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	39,451	2.00E+06[c]	No
128-H-1_Shallow_3	non-Rad	4,4'-DDE [Dichlorodiphenyldichloroethylene]	72-55-9	ug/kg	2.9	11,282	No
128-H-1_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	26	113,919	No
128-H-1_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	3.5	2.12E+06	No
128-H-1_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	239	30,529	No
128-H-1_Shallow_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.4	--[b]	--
128-H-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	50	--[b]	--

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
128-H-1_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	60	--[b]	--
128-H-1_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	59	--[b]	--
128-H-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29	--[b]	--
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	4,922	468,778	No
128-H-1_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	49	--[b]	--
128-H-1_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.6	--[b]	--
128-H-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	154	2.12E+06	No
128-H-1_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	4.3	118,992	No
128-H-1_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[a]	No
128-H-1_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[b]	--
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	65,620	--[b]	--
128-H-1_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	30	15,447	No
128-H-1_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	102	2.12E+06	No
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,742	2.00E+06[c]	No
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	19,397	2.00E+06[c]	No
128-H-1_Shallow_4	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.5	11,282	No
128-H-1_Shallow_4	non-Rad	Acenaphthene	83-32-9	ug/kg	15	113,919	No
128-H-1_Shallow_4	non-Rad	Anthracene	120-12-7	ug/kg	1.3	2.12E+06	No
128-H-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.4	10,075	No
128-H-1_Shallow_4	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19	--[b]	--
128-H-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.9	--[b]	--
128-H-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[b]	--
128-H-1_Shallow_4	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[b]	--
128-H-1_Shallow_4	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3	--[b]	--
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	4,462	468,778	No
128-H-1_Shallow_4	non-Rad	Chrysene	218-01-9	ug/kg	11	--[b]	--
128-H-1_Shallow_4	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[b]	--
128-H-1_Shallow_4	non-Rad	Fluoranthene	206-44-0	ug/kg	28	2.12E+06	No
128-H-1_Shallow_4	non-Rad	Fluorene	86-73-7	ug/kg	4.3	118,992	No
128-H-1_Shallow_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	156	6,000[a]	No
128-H-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.3	--[b]	--
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	44,536	--[b]	--
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1,021	15,447	No
128-H-1_Shallow_4	non-Rad	Naphthalene	91-20-3	ug/kg	6.6	9,481	No
128-H-1_Shallow_4	non-Rad	Pyrene	129-00-0	ug/kg	18	2.12E+06	No
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	10,082	2.00E+06[c]	No
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	48,270	2.00E+06[c]	No
128-H-1_Shallow_5	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[b]	--
128-H-1_Shallow_5	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13	--[b]	--
128-H-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	75	707,933	No
128-H-1_Shallow_5	non-Rad	Chrysene	218-01-9	ug/kg	15	--[b]	--
128-H-1_Shallow_5	non-Rad	Fluoranthene	206-44-0	ug/kg	23	2.12E+06	No
128-H-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	917	6,000[a]	No
128-H-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	23	15,447	No
128-H-1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	490	82,551	No
128-H-1_Shallow_5	non-Rad	Pyrene	129-00-0	ug/kg	30	2.12E+06	No
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	160,000	2.00E+06[c]	No
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	357,773	2.00E+06[c]	No
128-H-1_Staging pile area footprint_2	non-Rad	Acenaphthene	83-32-9	ug/kg	48	113,919	No
128-H-1_Staging pile area footprint_2	non-Rad	Anthracene	120-12-7	ug/kg	2.4	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.8	10,075	No
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Arsenic	7440-38-2	ug/kg	54,142	107	Yes
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	17	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.4	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Chrysene	218-01-9	ug/kg	10	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Fluoranthene	206-44-0	ug/kg	56	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Fluorene	86-73-7	ug/kg	12	118,992	No
128-H-1_Staging pile area footprint_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Lead	7439-92-1	ug/kg	124,843	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Mercury	7439-97-6	ug/kg	67	15,447	No
128-H-1_Staging pile area footprint_2	non-Rad	Pyrene	129-00-0	ug/kg	33	2.12E+06	No
128-H-1_Staging pile area footprint_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	23,047	2.00E+06[c]	No
128-H-1_Staging pile area footprint_6	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	707,933	No
128-H-1_Staging pile area footprint_6	non-Rad	Diethylphthalate	84-66-2	ug/kg	35	85,592	No
128-H-1_Staging pile area footprint_6	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	233	6,000[a]	No
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,700	2.00E+06[c]	No
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	23,494	2.00E+06[c]	No
128-H-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	6.25E+06	No
128-H-2_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	22	288,181	No
128-H-2_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	36	1.09E+06	No
128-H-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	6,000[a]	No
128-H-2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	4.0	154	No
128-H-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,200	106,892	No
128-H-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	4,100	2.00E+06[c]	No
128-H-3_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.7	126,192	No
128-H-3_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	18	--[b]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--[b]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--[b]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--[b]	--
128-H-3_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	7.92E+06	No
128-H-3_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	28	365,064	No
128-H-3_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	20	--[b]	--
128-H-3_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	120	1.38E+06	No
128-H-3_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	24	2.37E+07	No
128-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	94,100	--[b]	--
128-H-3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	40	172,785	No
128-H-3_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	6.0	195	No
128-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	923,386	No
128-H-3_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	28	2.37E+07	No
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,000	2.00E+06[c]	No
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,000	2.00E+06[c]	No
1607-H1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	420	92,347	No
1607-H1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56	--[b]	--
1607-H1_Overburden	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.4	15	No

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
1607-H1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	282	2.14E+06	No
1607-H1_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	2.0	24	No
1607-H1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	71	6.42E+06	No
1607-H1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	6,000[a]	No
1607-H1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	60,452	--[b]	--
1607-H1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	46,727	No
1607-H1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	57,506	413,638	No
1607-H1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,996	91,920	No
1607-H1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	96	6.42E+06	No
1607-H1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	979	36,619	No
1607-H1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--[b]	--
1607-H1_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.0	34,126	No
1607-H1_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.3	--[b]	--
1607-H1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	208	92,347	No
1607-H1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	27	30,476	No
1607-H1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--[b]	--
1607-H1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	73	--[b]	--
1607-H1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	68	--[b]	--
1607-H1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--[b]	--
1607-H1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	211	2.14E+06	No
1607-H1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	78	--[b]	--
1607-H1_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	3.9	24	No
1607-H1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	253	373,445	No
1607-H1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	171	6.42E+06	No
1607-H1_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	4,029	6.42E+06	No
1607-H1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	137	6,000[a]	No
1607-H1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	25,361	--[b]	--
1607-H1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	97	46,727	No
1607-H1_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,747	91,920	No
1607-H1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	233	6.42E+06	No
1607-H1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--[b]	--
1607-H1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.34	--[b]	--
1607-H1_Shallow	Rad	Tritium	10028-17-8	pCi/g	7.4	297	No
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	840	91,920	No
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	570	91,920	No
1607-H2_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	62	25,214	No
1607-H2_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	23	3.47E+06	No
1607-H2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	100	--[b]	--
1607-H2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	130	--[b]	--
1607-H2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	76	--[b]	--
1607-H2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	94	--[b]	--
1607-H2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	120	--[b]	--
1607-H2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	230	3.47E+06	No
1607-H2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[b]	--
1607-H2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	54,900	--[b]	--
1607-H2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	220	3.47E+06	No
1607-H2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	160	16,445	No
1607-H2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	24	1.16E+06	No
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	204,000	--[b]	--
1607-H2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	110	201,511	No
1607-H2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	37,629	--[b]	--
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2,591	25,214	No
1607-H2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	25,214	No
1607-H3_Overburden	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.0	21,630	No
1607-H3_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	18	125,274	No
1607-H3_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5	--[b]	--
1607-H3_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	18	1.26E+06	No
1607-H3_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	1.7	2.36E+07	No
1607-H3_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15	111,874	No
1607-H3_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[b]	--
1607-H3_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.2	--[b]	--
1607-H3_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[b]	--
1607-H3_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.7	--[b]	--
1607-H3_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--[b]	--
1607-H3_Overburden	non-Rad	Boron	7440-42-8	ug/kg	4,725	5.21E+06	No
1607-H3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	49,818	--[b]	--
1607-H3_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	12	--[b]	--
1607-H3_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.7	--[b]	--
1607-H3_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	3.2	107,275	No
1607-H3_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	22	2.36E+07	No
1607-H3_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	1.4	1.32E+06	No
1607-H3_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	129	6,000[a]	No
1607-H3_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.0	--[b]	--
1607-H3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	21,505	--[b]	--
1607-H3_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	171,529	No
1607-H3_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	11	193	No
1607-H3_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	103	105,276	No
1607-H3_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	21,414	1.75E+07	No
1607-H3_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,068	337,429	No
1607-H3_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	16	2.36E+07	No
1607-H3_Overburden	non-Rad	Silver	7440-22-4	ug/kg	840	355,445	No
1607-H3_Shallow_1	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	219	43,192	No
1607-H3_Shallow_1	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	1.6	21,630	No
1607-H3_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.8	125,274	No
1607-H3_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	10	--[b]	--
1607-H3_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	409	1.26E+06	No
1607-H3_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	7.8	2.36E+07	No
1607-H3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	389	338,997	No
1607-H3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	11	111,874	No
1607-H3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19	--[b]	--
1607-H3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[b]	--
1607-H3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.6	--[b]	--
1607-H3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.7	--[b]	--
1607-H3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.2	--[b]	--
1607-H3_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	4.6	57	No
1607-H3_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	43	--[b]	--
1607-H3_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.3	--[b]	--
1607-H3_Shallow_1	non-Rad	Endosulfan I	959-98-8	ug/kg	3.0	107,275	No
1607-H3_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	69	2.36E+07	No

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
1607-H3_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	76	1.32E+06	No
1607-H3_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	169	105,276	No
1607-H3_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,980	337,429	No
1607-H3_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	22	2.36E+07	No
1607-H3_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	10	1.26E+06	No
1607-H3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	133	6,000[a]	No
1607-H3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	16	171,529	No
1607-H3_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	7.6	105,276	No
1607-H3_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	541	337,429	No
1607-H4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	100	2.09E+07	No
1607-H4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	280	3.89E+08	No
1607-H4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	365	--[b]	--
1607-H4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	381	--[b]	--
1607-H4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	356	--[b]	--
1607-H4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	355	--[b]	--
1607-H4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	32	1.30E+08	No
1607-H4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	132,367	No
1607-H4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	389	--[b]	--
1607-H4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	22	--[b]	--
1607-H4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	42	652,088	No
1607-H4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,300	3.89E+08	No
1607-H4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	93	2.18E+07	No
1607-H4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	180	--[b]	--
1607-H4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	44,100	--[b]	--
1607-H4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	40	2.83E+06	No
1607-H4_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	25	1.74E+06	No
1607-H4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,200	3.89E+08	No
600-151_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.70	36,359	No
600-151_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.89	--[b]	--
600-151_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	6.8	71,093	No
600-151_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	5.4	6.84E+06	No
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	31,816	343	Yes
600-151_Shallow_1	non-Rad	Benzo[a]anthracene	56-55-3	ug/kg	75	--[b]	--
600-151_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[b]	--
600-151_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	46	--[b]	--
600-151_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	23	--[b]	--
600-151_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	4,859	1.51E+06	No
600-151_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	59	--[b]	--
600-151_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	22,587	2.40E+06	No
600-151_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	23	--[b]	--
600-151_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	125	6.84E+06	No
600-151_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	6.7	383,495	No
600-151_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	264	6,000[a]	No
600-151_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--[b]	--
600-151_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	126,984	--[b]	--
600-151_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	15	49,784	No
600-151_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	56	No
600-151_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	159	6.84E+06	No
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	940	39,015	No
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,454	2.00E+06[c]	No
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	30,037	2.00E+06[c]	No
600-151_Shallow_2	non-Rad	2-Butanone	78-93-3	ug/kg	6.9	50,052	No
600-151_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.47	36,359	No
600-151_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	30	71,093	No
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	59,606	343	Yes
600-151_Shallow_2	non-Rad	Benzo[a]anthracene	56-55-3	ug/kg	24	--[b]	--
600-151_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	25	--[b]	--
600-151_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	25	--[b]	--
600-151_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
600-151_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	596	5,213	No
600-151_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	29	--[b]	--
600-151_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	60	6.84E+06	No
600-151_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	266,765	--[b]	--
600-151_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	13	49,784	No
600-151_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	11	56	No
600-151_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	72	6.84E+06	No
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,660	2.00E+06[c]	No
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	6,646	2.00E+06[c]	No
600-151_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.4	36,359	No
600-151_Shallow_3	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.91	--[b]	--
600-151_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	6.7	6.84E+06	No
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	53,961	343	Yes
600-151_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	215,867	6.84E+06	No
600-151_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38	--[b]	--
600-151_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	39	--[b]	--
600-151_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	31	--[b]	--
600-151_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[b]	--
600-151_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	45	--[b]	--
600-151_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	69	6.84E+06	No
600-151_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	9.0	383,495	No
600-151_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[b]	--
600-151_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	276,283	--[b]	--
600-151_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	29	49,784	No
600-151_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	56	No
600-151_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	18	30,555	No
600-151_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	93	6.84E+06	No
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	4,406	2.00E+06[c]	No
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range extended to C36	TPHDIESELEXT	ug/kg	17,034	2.00E+06[c]	No
600-152_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	15	3.89E+08	No
600-152_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	13	--[b]	--
600-152_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	15	--[b]	--
600-152_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13	--[b]	--
600-152_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.6	--[b]	--
600-152_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	10	--[b]	--
600-152_Shallow	non-Rad	Copper	7440-50-8	ug/kg	23,251	1.36E+08	No
600-152_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.0	--[b]	--
600-152_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	39	3.89E+08	No
600-152_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.7	2.18E+07	No
600-152_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	10	--[b]	--

Table 7-10. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Groundwater (With Background Consideration)

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Groundwater?
600-152_Shallow	non-Rad	Lead	7439-92-1	ug/kg	13,578	--[b]	--
600-152_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13	2.83E+06	No
600-152_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	18	3.89E+08	No
600-152_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.27	156,531	No

Notes:

a. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

b. The calculated soil screening level for the analyte is considered non-representative because breakthrough was not simulated to occur within 1000 years in more than one of the set of representative stratigraphic columns, where breakthrough is defined as a mass concentration exceeding 0.0001 µg/L for nonradionuclides or an activity concentration exceeding 0.0001 pCi/L for radionuclides.

c. The soil screening level for Total Petroleum Hydrocarbons is a default screening level obtained from WAC 173-340-900, Table 747-5, "Residual Saturation Screening Levels for TPH."

d. No Value Required. Uranium is not modeled because uranium was not identified in the groundwater risk assessment as a COC. However, uranium has been previously identified in association with the 183-H Solar Evaporation Basin as an indicator parameter for that RCRA site. Uranium has been detected above the RCRA permit levels and was detected above the DWS in 2012 in one location. While the analyte does not constitute a groundwater risk, it is being carried forward into the FS as a COC for the area local to 183-H only, based on detections in groundwater.

-- = Not applicable or no value.

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-17_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	471	6,000[a]	No
100-H-17_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.50	1,989	No
100-H-21_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,472	6,000[a]	No
100-H-21_Deep	non-Rad	Lead	7439-92-1	ug/kg	17,593	--[b]	--
100-H-21_Deep	non-Rad	Mercury	7439-97-6	ug/kg	64	16,981	No
100-H-21_Deep	Rad	Cesium-137	10045-97-3	pCi/g	4.4	--[b]	--
100-H-21_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.28	--[b]	--
100-H-21_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.2	--[b]	--
100-H-21_Deep	Rad	Europium-154	15585-10-1	pCi/g	0.41	--[b]	--
100-H-21_Deep	Rad	Nickel-63	13981-37-8	pCi/g	10	1.70E+06	No
100-H-21_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.076	--[b]	--
100-H-21_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.30	156,531	No
100-H-21_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	813	6,000[a]	No
100-H-21_Overburden	non-Rad	Lead	7439-92-1	ug/kg	36,426	--[b]	--
100-H-21_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	40	16,981	No
100-H-21_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[b]	--
100-H-21_Overburden	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.045	--[b]	--
100-H-21_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	487	6,000[a]	No
100-H-21_Shallow	non-Rad	Lead	7439-92-1	ug/kg	40,132	--[b]	--
100-H-21_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.28	--[b]	--
100-H-21_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.072	--[b]	--
100-H-21_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.075	--[b]	--
100-H-21_Shallow	Rad	Technetium-99	14133-76-7	pCi/g	0.63	501	No
100-H-24_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	69	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	22	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Aluminum	7429-90-5	ug/kg	1.21E+07	--[b]	--
100-H-28:1_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	540,000	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.7	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.2	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	58	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	66,400	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	4.3	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	22,700	1.92E+06	No
100-H-28:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.2	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	7.2	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	6.9	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	30	16,981	No
100-H-28:1_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,100	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	23	--[c]	--
100-H-28:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	8.3	--[c]	--
100-H-28:6_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	200	--[c]	--
100-H-28:6_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	31,400	--[b]	--
100-H-3_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.0	590,694	No
100-H-3_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13	--[b]	--
100-H-3_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	70	--[c]	--
100-H-3_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	71	--[c]	--
100-H-3_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	61	--[c]	--
100-H-3_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	63	--[c]	--
100-H-3_Shallow	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.5	--[c]	--
100-H-3_Shallow	non-Rad	Boron	7440-42-8	ug/kg	4,684	--[c]	--
100-H-3_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	85	--[c]	--
100-H-3_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	4.9	509	No
100-H-3_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	138	--[c]	--
100-H-3_Shallow	non-Rad	Lead	7439-92-1	ug/kg	47,557	--[b]	--
100-H-3_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	257	16,981	No
100-H-3_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	143	--[c]	--
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	164,000	--[c]	--
100-H-3_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,682	--[c]	--
100-H-35_Shallow_Focused_1	non-Rad	Chromium	7440-47-3	ug/kg	20,700	--[b]	--
100-H-35_Shallow_Focused_2	non-Rad	Chromium	7440-47-3	ug/kg	20,900	--[b]	--
100-H-35_Shallow_Focused_2	non-Rad	Lead	7439-92-1	ug/kg	10,500	--[b]	--
100-H-35_Shallow_Focused_2	non-Rad	Mercury	7439-97-6	ug/kg	102	16,981	No
100-H-35_Shallow_Focused_3	non-Rad	Lead	7439-92-1	ug/kg	25,200	--[b]	--
100-H-35_Shallow_Focused_3	non-Rad	Zinc	7440-66-6	ug/kg	94,200	2.25E+08	No
100-H-37_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	54,000	--[b]	--
100-H-37_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	19	181	No
100-H-37_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	1,200	--[c]	--
100-H-37_Shallow_Focused	non-Rad	Total_U_Isotopes	Total_U_Isotopes	ug/kg	3,423	--[c]	--
100-H-37_Shallow_Focused	Rad	Uranium-235	15117-96-1	pCi/g	0.14	--[c]	--
100-H-37_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.2	--[c]	--
100-H-4_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.0	--[c]	--
100-H-4_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.6	--[b]	--
100-H-4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	11	--[c]	--
100-H-4_Shallow	non-Rad	Alpha-Chlordane	5103-71-9	ug/kg	3.0	207	No
100-H-4_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	28	21,248	No
100-H-4_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	13	--[b]	--
100-H-4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.1	--[c]	--
100-H-4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.3	--[c]	--
100-H-4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	4.4	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.3	--[c]	--
100-H-4_Shallow	non-Rad	Chlordane	57-74-9	ug/kg	1.4	207	No
100-H-4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	4.8	--[c]	--
100-H-4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	8.7	--[c]	--
100-H-4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	3.0	--[c]	--
100-H-4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[c]	--
100-H-4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	27,406	--[b]	--
100-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	408	611	No
100-H-4_Shallow	non-Rad	Methylene chloride	75-09-2	ug/kg	5.7	--[c]	--
100-H-4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	6.8	--[c]	--
100-H-4_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,792	--[c]	--
100-H-4_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	7.7	61,007	No
100-H-4_Shallow	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[c]	--
100-H-4_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.1	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	51	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	420	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	14	21,248	No
100-H-4_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	73	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	163,000	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	53	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	44	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	33	--[c]	--
100-H-4_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	2.4	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	27	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	19,400	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	41	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,300	69,034	No
100-H-4_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	17	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	49	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	4.2	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	20	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	27,400	--[b]	--
100-H-4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	20	611	No
100-H-4_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.9	6,503	No
100-H-4_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	14	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	730	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	46	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,300	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	188,000	--[c]	--
100-H-4_Shallow_Focused	non-Rad	Uranium	7440-61-1	ug/kg	10,100	--[c]	--
100-H-4_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.5	--[c]	--
100-H-4_Shallow_Focused	Rad	Uranium-238	U-238	pCi/g	1.3	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	2,160	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	19	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	29	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	133	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.8	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	44	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	25,700	11,056	Yes
100-H-40_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.1	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	13	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	854	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	24,400	--[b]	--
100-H-40_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	80	98	No
100-H-40_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	961	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	24	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	170,000	--[c]	--
100-H-40_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	83,400	1.30E+06	No
100-H-41_Shallow_Focused	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	501	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	344	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	341	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1,110	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	971	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	1,270	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	396	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Carbazole	86-74-8	ug/kg	3,740	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	854	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	123	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Dibenzofuran	132-64-9	ug/kg	1,630	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	2,310	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	200	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	200	6,000[a]	No
100-H-41_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	593	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	622	--[c]	--
100-H-41_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	1,530	--[c]	--
100-H-45_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	288	--[c]	--
100-H-45_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,080	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	5.2	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	213	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	13	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	332	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	52	590,694	No
100-H-49:2_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	48	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	175,000	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	20	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	34	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	88	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	17	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	3.1	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	5,660	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	18,800	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	316	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	27,200	1.92E+06	No
100-H-49:2_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	24	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	248	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	89	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	51	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,200	--[b]	--
100-H-49:2_Shallow_Focused	non-Rad	Methoxychlor	72-43-5	ug/kg	1.6	180,788	No
100-H-49:2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	10	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	489	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	115	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,360	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	41	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Silver	7440-22-4	ug/kg	547	191,245	No
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	63,800	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	121,000	--[c]	--
100-H-49:2_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	96,700	2.25E+08	No
100-H-49:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.6	--[b]	--
100-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	33	--[b]	--
100-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,871	--[b]	--
100-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	72	1,027	No
100-H-5_Shallow	Rad	Uranium-235	15117-96-1	pCi/g	0.18	--[c]	--
100-H-50_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	12,600	--[b]	--
100-H-50_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	34	16,981	No
100-H-51:4_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	2.7	--[c]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.9	--[c]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.9	--[c]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.7	--[c]	--
100-H-51:4_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.2	--[c]	--
100-H-51:4_Shallow_Focused	non-Rad	Cadmium	7440-43-9	ug/kg	810	14,817	No
100-H-51:4_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	1.0	--[c]	--
100-H-51:4_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	1.3	--[c]	--
100-H-51:4_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	45	16,981	No
100-H-51:4_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,100	2.25E+08	No
100-H-51:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	37	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	0.92	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Barium	7440-39-3	ug/kg	199,000	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	3.0	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	6.5	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	6.8	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.0	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	26,300	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	16	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.9	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	9.2	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	10	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	16	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	19,900	--[c]	--
100-H-51:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	47,700	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	7.4	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	61	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	8.5	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.8	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.3	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	22	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.1	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	82	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	1.8	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,520	6,000[a]	No
100-H-53_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	24	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	35,900	--[b]	--
100-H-53_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	3,840	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	6.6	--[c]	--
100-H-53_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	42	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
100-H-53_Shallow_Focused	non-Rad	Zinc	7440-66-6	ug/kg	79,900	2.25E+08	No
100-H-7_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	470	--[c]	--
100-H-7_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	620	--[c]	--
100-H-8_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	520	--[c]	--
100-H-8_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	23,400	799,641	No
100-H-8_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	46,800	--[b]	--
100-H-8_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	310	7,076	No
100-H-8_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	930	--[c]	--
116-H-1_Deep	non-Rad	Lead	7439-92-1	ug/kg	23,100	--[b]	--
116-H-1_Deep	Rad	Cesium-137	10045-97-3	pCi/g	47	--[b]	--
116-H-1_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	2.1	--[b]	--
116-H-1_Deep	Rad	Europium-152	14683-23-9	pCi/g	58	--[b]	--
116-H-1_Deep	Rad	Europium-154	15585-10-1	pCi/g	6.6	--[b]	--
116-H-1_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.028	--[b]	--
116-H-1_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.6	--[b]	--
116-H-1_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.8	2,556	No
116-H-1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	502	6,000[a]	No
116-H-1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	12,408	--[b]	--
116-H-1_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.69	--[b]	--
116-H-1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.15	--[b]	--
116-H-1_Shallow	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.068	--[b]	--
116-H-1_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.74	2,556	No
116-H-3_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,960	6,000[a]	No
116-H-3_Deep	Rad	Cesium-137	10045-97-3	pCi/g	10	--[b]	--
116-H-3_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.84	--[b]	--
116-H-3_Deep	Rad	Europium-152	14683-23-9	pCi/g	23	--[b]	--
116-H-3_Deep	Rad	Europium-154	15585-10-1	pCi/g	2.1	--[b]	--
116-H-3_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.055	--[b]	--
116-H-3_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.66	--[b]	--
116-H-5_Deep	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.1	--[c]	--
116-H-5_Deep	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	3.1	--[b]	--
116-H-5_Deep	non-Rad	Anthracene	120-12-7	ug/kg	5.1	--[c]	--
116-H-5_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	7.3	--[b]	--
116-H-5_Deep	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38	--[c]	--
116-H-5_Deep	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	41	--[c]	--
116-H-5_Deep	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	51	--[c]	--
116-H-5_Deep	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	30	--[c]	--
116-H-5_Deep	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	84	--[c]	--
116-H-5_Deep	non-Rad	Chrysene	218-01-9	ug/kg	45	--[c]	--
116-H-5_Deep	non-Rad	Fluoranthene	206-44-0	ug/kg	69	--[c]	--
116-H-5_Deep	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	35	--[c]	--
116-H-5_Deep	non-Rad	Lead	7439-92-1	ug/kg	16,378	--[b]	--
116-H-5_Deep	non-Rad	Mercury	7439-97-6	ug/kg	20	1,122	No
116-H-5_Deep	non-Rad	Molybdenum	7439-98-7	ug/kg	870	--[c]	--
116-H-5_Deep	non-Rad	Nitrate	14797-55-8	ug/kg	132,545	--[c]	--
116-H-5_Deep	non-Rad	Nitrite	14797-65-0	ug/kg	1,300	--[c]	--
116-H-5_Deep	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	23,726	--[c]	--
116-H-5_Deep	non-Rad	Pyrene	129-00-0	ug/kg	77	--[c]	--
116-H-5_Deep	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	81,718	--[c]	--
116-H-5_Deep	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--[b]	--
116-H-5_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	0.15	--[b]	--
116-H-5_Deep	Rad	Europium-152	14683-23-9	pCi/g	2.3	--[b]	--
116-H-5_Deep	Rad	Nickel-63	13981-37-8	pCi/g	13	112,094	No
116-H-5_Deep	Rad	Tritium	10028-17-8	pCi/g	3.3	1,189	No
116-H-5_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45	--[c]	--
116-H-5_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	22	--[c]	--
116-H-5_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	36	--[c]	--
116-H-5_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	406	--[c]	--
116-H-5_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	47	--[c]	--
116-H-5_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	51	--[c]	--
116-H-5_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	52	--[c]	--
116-H-5_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	24	--[c]	--
116-H-5_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	120	--[c]	--
116-H-5_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	69	--[c]	--
116-H-5_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.4	--[c]	--
116-H-5_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	130	--[c]	--
116-H-5_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	7.6	--[c]	--
116-H-5_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	165	6,000[a]	No
116-H-5_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	34	--[c]	--
116-H-5_Overburden	non-Rad	Lead	7439-92-1	ug/kg	16,326	--[b]	--
116-H-5_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	25	--[c]	--
116-H-5_Overburden	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	960	--[c]	--
116-H-5_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,151	--[c]	--
116-H-5_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	100	--[c]	--
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	3,200	--[c]	--
116-H-5_Overburden	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	6,500	--[c]	--
116-H-5_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	9,996	--[c]	--
116-H-5_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.3	--[b]	--
116-H-5_Overburden	Rad	Plutonium-238	13981-16-3	pCi/g	1.4	--[b]	--
116-H-5_Overburden	Rad	Tritium	10028-17-8	pCi/g	3.0	1,189	No

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
116-H-5_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.45	--[c]	--
116-H-5_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8	--[c]	--
116-H-5_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	3.7	--[c]	--
116-H-5_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	378	--[c]	--
116-H-5_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.9	--[b]	--
116-H-5_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[c]	--
116-H-5_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[c]	--
116-H-5_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[c]	--
116-H-5_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.8	--[c]	--
116-H-5_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	11	--[c]	--
116-H-5_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[c]	--
116-H-5_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	27	--[c]	--
116-H-5_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.6	--[c]	--
116-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60	6,000[a]	No
116-H-5_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.9	--[c]	--
116-H-5_Shallow	non-Rad	Lead	7439-92-1	ug/kg	14,110	--[b]	--
116-H-5_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	18	1,122	No
116-H-5_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	15	--[c]	--
116-H-5_Shallow	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	1,100	--[c]	--
116-H-5_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,266	--[c]	--
116-H-5_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	26	--[c]	--
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,600	--[c]	--
116-H-5_Shallow	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	8,100	--[c]	--
116-H-5_Shallow	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,314	--[c]	--
116-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.0	--[b]	--
116-H-5_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	19	112,094	No
116-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.4	10,346	No
116-H-5_Shallow	Rad	Tritium	10028-17-8	pCi/g	4.1	1,189	No
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	11	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	5.3	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Anthracene	120-12-7	ug/kg	87	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15	39,041	No
116-H-5_Staging Pile Area Footprint	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	76	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	59	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	64	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	122	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	59	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	26	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	400	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Fluorene	86-73-7	ug/kg	57	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	42	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Lead	7439-92-1	ug/kg	45,682	--[b]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	44,800	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	50,900	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	137	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,400	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	20,867	--[c]	--
116-H-5_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	97,039	--[c]	--
116-H-5_Staging Pile Area Footprint	Rad	Technetium-99	14133-76-7	pCi/g	0.81	33	No
116-H-7_Deep	non-Rad	Aroclor-1242	53469-21-9	ug/kg	94	925	No
116-H-7_Deep	non-Rad	Aroclor-1260	11096-82-5	ug/kg	256	--[b]	--
116-H-7_Deep	non-Rad	Chromium	7440-47-3	ug/kg	55,857	--[b]	--
116-H-7_Deep	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	4,795	6,000[a]	No
116-H-7_Deep	non-Rad	Mercury	7439-97-6	ug/kg	1,002	203	Yes
116-H-7_Deep	Rad	Cesium-137	10045-97-3	pCi/g	22	--[b]	--
116-H-7_Deep	Rad	Cobalt-60	10198-40-0	pCi/g	6.5	--[b]	--
116-H-7_Deep	Rad	Europium-152	14683-23-9	pCi/g	65	--[b]	--
116-H-7_Deep	Rad	Europium-154	15585-10-1	pCi/g	8.7	--[b]	--
116-H-7_Deep	Rad	Nickel-63	13981-37-8	pCi/g	316	20,311	No
116-H-7_Deep	Rad	Plutonium-238	13981-16-3	pCi/g	0.099	--[b]	--
116-H-7_Deep	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.86	--[b]	--
116-H-7_Deep	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.5	1,875	No
116-H-7_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	77	--[b]	--
116-H-7_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	590	6,000[a]	No
116-H-7_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	660	--[b]	--
116-H-7_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	19,656	--[b]	--
116-H-7_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	958	6,000[a]	No
116-H-7_Shallow	non-Rad	Lead	7439-92-1	ug/kg	20,249	--[b]	--
116-H-7_Shallow	Rad	Europium-152	14683-23-9	pCi/g	0.68	--[b]	--
116-H-9_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	435	--[c]	--
116-H-9_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	23	590,694	No
116-H-9_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.6	--[b]	--
116-H-9_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	262	6,000[a]	No
116-H-9_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	15	16,981	No
116-H-9_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.027	--[b]	--
118-H-1:1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	75	--[c]	--
118-H-1:1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	8.2	--[c]	--
118-H-1:1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	489	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-1:1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.5	2,784	No
118-H-1:1_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	10	--[b]	--
118-H-1:1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	34	--[c]	--
118-H-1:1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	57	--[c]	--
118-H-1:1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	33	--[c]	--
118-H-1:1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19	--[c]	--
118-H-1:1_Overburden	non-Rad	Boron	7440-42-8	ug/kg	10,532	--[c]	--
118-H-1:1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	51	--[c]	--
118-H-1:1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.6	--[c]	--
118-H-1:1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	134	--[c]	--
118-H-1:1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	6.8	--[c]	--
118-H-1:1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[c]	--
118-H-1:1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	17,746	--[b]	--
118-H-1:1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	13	--[c]	--
118-H-1:1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,753	--[c]	--
118-H-1:1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	117	--[c]	--
118-H-1:1_Overburden	non-Rad	Silver	7440-22-4	ug/kg	224	902	No
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,992	--[c]	--
118-H-1:1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	15,814	--[c]	--
118-H-1:1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.4	--[b]	--
118-H-1:1_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	2.5	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	3.6	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	9.8	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.3	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.1	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	11	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	3.4	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	1.5	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	9.5	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	18	80	No
118-H-1:1_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	3.3	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	5,340	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	36	--[c]	--
118-H-1:1_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	1,000	1,046	No
118-H-1:1_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,315	--[c]	--
118-H-1:1_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	1.9	--[b]	--
118-H-1:1_Shallow_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	--[b]	--
118-H-1:1_Shallow_1	Rad	Europium-152	14683-23-9	pCi/g	0.21	--[b]	--
118-H-1:1_Shallow_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	2.8	--[b]	--
118-H-1:1_Shallow_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.5	738	No
118-H-1:1_Shallow_1	Rad	Tritium	10028-17-8	pCi/g	3.4	85	No
118-H-1:1_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	1.8	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	3.0	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	257	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	5.1	2,784	No
118-H-1:1_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7	--[b]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.1	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	3.3	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	7.7	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	3.7	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.5	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	21	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	1.5	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	3.9	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	57	80	No
118-H-1:1_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,950	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	9.2	--[c]	--
118-H-1:1_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	3,880	--[c]	--
118-H-1:1_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.8	--[b]	--
118-H-1:1_Shallow_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.11	--[b]	--
118-H-1:1_Shallow_2	Rad	Europium-152	14683-23-9	pCi/g	0.26	--[b]	--
118-H-1:1_Shallow_2	Rad	Nickel-63	13981-37-8	pCi/g	8.6	7,995	No
118-H-1:1_Shallow_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	2.3	738	No
118-H-1:1_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	4.0	85	No
118-H-1:1_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	6.9	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	226	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1254	11097-69-1	ug/kg	29	2,784	No
118-H-1:1_Shallow_Focused	non-Rad	Aroclor-1260	11096-82-5	ug/kg	28	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	4.5	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-1:1_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	5.3	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	9.7	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.4	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Boron	7440-42-8	ug/kg	4,160	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Chromium	7440-47-3	ug/kg	22,000	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	25	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.89	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	17	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	15	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	10,900	--[b]	--
118-H-1:1_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	202	80	Yes
118-H-1:1_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	8.2	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	3,480	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	11	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,500	--[c]	--
118-H-1:1_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	30,300	--[c]	--
118-H-1:1_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	2.1	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.062	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Europium-152	14683-23-9	pCi/g	0.30	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	11	7,995	No
118-H-1:1_Shallow_Focused	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.35	--[b]	--
118-H-1:1_Shallow_Focused	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.4	738	No
118-H-1:1_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	8.7	85	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Acenaphthene	83-32-9	ug/kg	5.3	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	1.6	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	1.9	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	2.2	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	1.3	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Chrysene	218-01-9	ug/kg	2.1	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Fluoranthene	206-44-0	ug/kg	3.8	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	1.8	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Mercury	7439-97-6	ug/kg	32	80	No
118-H-1:1_Staging Pile Area Footprint	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	4,861	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Pyrene	129-00-0	ug/kg	5.7	--[c]	--
118-H-1:1_Staging Pile Area Footprint	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	7,617	--[c]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Carbon-14	14762-75-5	pCi/g	1.1	--[b]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Cobalt-60	10198-40-0	pCi/g	0.13	--[b]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Europium-152	14683-23-9	pCi/g	0.19	--[b]	--
118-H-1:1_Staging Pile Area Footprint	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.49	738	No
118-H-1:1_Staging Pile Area Footprint	Rad	Tritium	10028-17-8	pCi/g	2.7	85	No
118-H-1:2_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	12	--[c]	--
118-H-1:2_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	28	--[c]	--
118-H-1:2_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33	--[c]	--
118-H-1:2_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	24	--[c]	--
118-H-1:2_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	40	--[c]	--
118-H-1:2_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	33	--[c]	--
118-H-1:2_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	76	--[c]	--
118-H-1:2_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	7.3	--[c]	--
118-H-1:2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	544	6,000[a]	No
118-H-1:2_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	68	--[c]	--
118-H-1:2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	10,968	--[b]	--
118-H-1:2_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	84	--[c]	--
118-H-1:2_Shallow	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	7,600	--[c]	--
118-H-1:2_Shallow	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	4,042	--[c]	--
118-H-1:2_Shallow	Rad	Tritium	10028-17-8	pCi/g	0.064	85	No
118-H-1:2_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	7.6	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	43	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	33	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	35	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	35	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	83	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369	6,000[a]	No
118-H-1:2_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	26	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,700	--[b]	--
118-H-1:2_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	52	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	2,400	--[c]	--
118-H-1:2_Shallow_Focused	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	4,100	--[c]	--
118-H-1:2_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	0.81	--[b]	--
118-H-2_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	171	6,000[a]	No
118-H-2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	15,481	--[b]	--
118-H-2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	14	390	No
118-H-2_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	--[b]	--
118-H-2_Shallow	Rad	Nickel-63	13981-37-8	pCi/g	13	38,934	No
118-H-3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	743	--[c]	--
118-H-3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	55	--[b]	--
118-H-3_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	23,535	17,290	Yes
118-H-3_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80	6,000[a]	No
118-H-3_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	57,642	--[b]	--
118-H-3_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	1,412	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-3_Shallow_1	non-Rad	Silver	7440-22-4	ug/kg	417	1,723	No
118-H-3_Shallow_1	non-Rad	Zinc	7440-66-6	ug/kg	132,913	2.03E+06	No
118-H-3_Shallow_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[b]	--
118-H-3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	400	6,000[a]	No
118-H-3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	15	153	No
118-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	11,600	--[b]	--
118-H-3_Shallow_Focused	Rad	Cobalt-60	10198-40-0	pCi/g	0.53	--[b]	--
118-H-3_Shallow_Focused	Rad	Nickel-63	13981-37-8	pCi/g	8.8	15,279	No
118-H-4_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	90	6,000[a]	No
118-H-4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	22	15,162	No
118-H-4_Shallow	Rad	Cesium-137	10045-97-3	pCi/g	1.1	--[b]	--
118-H-4_Shallow	Rad	Cobalt-60	10198-40-0	pCi/g	0.10	--[b]	--
118-H-4_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	1.3	139,760	No
118-H-4_Staging Pile Area	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	150	6,000[a]	No
118-H-4_Staging Pile Area	non-Rad	Lead	7439-92-1	ug/kg	28,136	--[b]	--
118-H-4_Staging Pile Area	non-Rad	Molybdenum	7439-98-7	ug/kg	482	--[c]	--
118-H-4_Staging Pile Area	non-Rad	Zinc	7440-66-6	ug/kg	72,799	2.01E+08	No
118-H-5_Shallow	non-Rad	Boron	7440-42-8	ug/kg	6,246	--[c]	--
118-H-5_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	369	6,000[a]	No
118-H-5_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	2.8	--[b]	--
118-H-5_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.36	139,760	No
118-H-5_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	280	6,000[a]	No
118-H-5_Shallow_Focused	Rad	Uranium-233/234	U-233/234	pCi/g	1.1	--[c]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	1,500	6,000[a]	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	non-Rad	Lead	7439-92-1	ug/kg	22,400	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Americium-241	14596-10-2	pCi/g	0.27	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cesium-137	10045-97-3	pCi/g	5.0	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Cobalt-60	10198-40-0	pCi/g	0.19	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Europium-152	14683-23-9	pCi/g	1.3	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.052	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Nickel-63	13981-37-8	pCi/g	15	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.97	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_2	Rad	Total beta radiostrontium	SR-RAD	pCi/g	5.6	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Aroclor-1254	11097-69-1	ug/kg	17	5,419	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	940	6,000[a]	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	non-Rad	Lead	7439-92-1	ug/kg	19,900	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Americium-241	14596-10-2	pCi/g	0.56	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Carbon-14	14762-75-5	pCi/g	25	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cesium-137	10045-97-3	pCi/g	20	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Cobalt-60	10198-40-0	pCi/g	0.26	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-152	14683-23-9	pCi/g	3.4	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Europium-154	15585-10-1	pCi/g	0.43	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Neptunium-237	13994-20-2	pCi/g	0.036	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Nickel-63	13981-37-8	pCi/g	43	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Plutonium-239/240	PU-239/240	pCi/g	1.0	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Total beta radiostrontium	SR-RAD	pCi/g	6.3	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_3	Rad	Tritium	10028-17-8	pCi/g	0.25	165	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.57	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_4	Rad	Tritium	10028-17-8	pCi/g	0.57	165	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	non-Rad	Lead	7439-92-1	ug/kg	34,300	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Americium-241	14596-10-2	pCi/g	0.30	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cesium-137	10045-97-3	pCi/g	3.3	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Cobalt-60	10198-40-0	pCi/g	0.21	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-152	14683-23-9	pCi/g	5.2	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Europium-154	15585-10-1	pCi/g	0.66	--[b]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Neptunium-237	13994-20-2	pCi/g	0.029	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Nickel-63	13981-37-8	pCi/g	25	15,559	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Plutonium-239/240	PU-239/240	pCi/g	0.40	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_1	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.63	1,436	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Cesium-137	10045-97-3	pCi/g	1.2	--[b]	--
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Neptunium-237	13994-20-2	pCi/g	0.033	19	No
118-H-6:2,3,6, 100-H-9,10,11,12,13,14,31_Deep_Focused_2	Rad	Nickel-63	13981-37-8	pCi/g	15	15,559	No
118-H-6:4_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	127	6,000[a]	No
118-H-6:4_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	24	148	No
118-H-6:4_Overburden	Rad	Europium-152	14683-23-9	pCi/g	0.93	--[b]	--
118-H-6:4_Overburden	Rad	Neptunium-237	13994-20-2	pCi/g	0.077	18	No
118-H-6:4_Overburden	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.48	1,361	No
118-H-6:5_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	5.8	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	2.8	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	664	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	10	5,136	No
118-H-6:5_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	5.4	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	39,809	436,571	No
118-H-6:5_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	23	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	24	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	26	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	13	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	19	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	4.2	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	78	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	2.7	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	80	6,000[a]	No
118-H-6:5_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	21	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	171,632	--[b]	--
118-H-6:5_Shallow_1	non-Rad	Molybdenum	7439-98-7	ug/kg	485	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	16	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	66	--[c]	--
118-H-6:5_Shallow_1	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	8,426	--[c]	--
118-H-6:5_Shallow_1	Rad	Carbon-14	14762-75-5	pCi/g	7.1	--[b]	--
118-H-6:5_Shallow_1	Rad	Technetium-99	14133-76-7	pCi/g	0.38	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	24	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Anthracene	120-12-7	ug/kg	9.7	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Antimony	7440-36-0	ug/kg	464	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	98	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	69	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	204	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	62	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Boron	7440-42-8	ug/kg	12,190	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	121	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.4	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	707	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Fluorene	86-73-7	ug/kg	5.6	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	60	6,000[a]	No
118-H-6:5_Shallow_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	13,861	--[b]	--
118-H-6:5_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	167	148	Yes
118-H-6:5_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	44	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	254	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	38,884	--[c]	--
118-H-6:5_Shallow_2	non-Rad	Xylenes (total)	1330-20-7	ug/kg	1.1	--[c]	--
118-H-6:5_Shallow_2	Rad	Carbon-14	14762-75-5	pCi/g	1.4	--[b]	--
118-H-6:5_Shallow_2	Rad	Technetium-99	14133-76-7	pCi/g	0.40	4.4	No
118-H-6:5_Shallow_2	Rad	Tritium	10028-17-8	pCi/g	6.7	156	No
118-H-6:5_Shallow_3	non-Rad	2-Hexanone	591-78-6	ug/kg	4.7	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	2.8	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	2.4	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	505	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	5.2	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.7	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	5.2	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	2.5	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	3.2	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	0.98	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	9.5	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.9	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	11,233	--[b]	--
118-H-6:5_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.6	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	42	--[c]	--
118-H-6:5_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	10	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
118-H-6:5_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	14,695	--[c]	--
118-H-6:5_Shallow_3	Rad	Carbon-14	14762-75-5	pCi/g	0.96	--[b]	--
118-H-6:5_Shallow_3	Rad	Tritium	10028-17-8	pCi/g	7.0	156	No
118-H-6:5_Shallow_Focused	non-Rad	Acenaphthene	83-32-9	ug/kg	8.3	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Anthracene	120-12-7	ug/kg	4.9	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Antimony	7440-36-0	ug/kg	592	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Arsenic	7440-38-2	ug/kg	27,000	436,571	No
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	53	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	40	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	47	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Copper	7440-50-8	ug/kg	34,500	16,688	Yes
118-H-6:5_Shallow_Focused	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.5	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	171	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Fluorene	86-73-7	ug/kg	3.7	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	114,000	--[b]	--
118-H-6:5_Shallow_Focused	non-Rad	Naphthalene	91-20-3	ug/kg	10	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	149	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	12,000	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	24,000	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - gasoline range	TPHGASOLINE	ug/kg	470	--[c]	--
118-H-6:5_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	41,600	--[c]	--
118-H-6:5_Shallow_Focused	Rad	Carbon-14	14762-75-5	pCi/g	1.2	--[b]	--
118-H-6:5_Shallow_Focused	Rad	Tritium	10028-17-8	pCi/g	4.1	156	No
128-H-1_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.29	--[c]	--
128-H-1_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	4.4	--[c]	--
128-H-1_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	3.1	--[c]	--
128-H-1_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.1	3,224	No
128-H-1_Overburden	non-Rad	Arsenic	7440-38-2	ug/kg	40,542	274,019	No
128-H-1_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	30	--[c]	--
128-H-1_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[c]	--
128-H-1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	39	--[c]	--
128-H-1_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	19	--[c]	--
128-H-1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	144	--[c]	--
128-H-1_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	29	--[c]	--
128-H-1_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	6.6	--[c]	--
128-H-1_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	1.3	5.6	No
128-H-1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	98	--[c]	--
128-H-1_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	2.6	--[c]	--
128-H-1_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	39	--[c]	--
128-H-1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	253,830	--[b]	--
128-H-1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	20	93	No
128-H-1_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	5.5	--[c]	--
128-H-1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	95	--[c]	--
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,400	--[c]	--
128-H-1_Overburden	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	24,000	--[c]	--
128-H-1_Overburden	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	39,451	--[c]	--
128-H-1_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.9	--[c]	--
128-H-1_Shallow_3	non-Rad	Acenaphthene	83-32-9	ug/kg	26	--[c]	--
128-H-1_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	3.5	--[c]	--
128-H-1_Shallow_3	non-Rad	Antimony	7440-36-0	ug/kg	239	--[c]	--
128-H-1_Shallow_3	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.4	--[b]	--
128-H-1_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	50	--[c]	--
128-H-1_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	60	--[c]	--
128-H-1_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	59	--[c]	--
128-H-1_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	29	--[c]	--
128-H-1_Shallow_3	non-Rad	Boron	7440-42-8	ug/kg	4,922	--[c]	--
128-H-1_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	49	--[c]	--
128-H-1_Shallow_3	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	7.6	--[c]	--
128-H-1_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	154	--[c]	--
128-H-1_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	4.3	--[c]	--
128-H-1_Shallow_3	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	170	6,000[a]	No
128-H-1_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	41	--[c]	--
128-H-1_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	65,620	--[b]	--
128-H-1_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	30	93	No
128-H-1_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	102	--[c]	--
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,742	--[c]	--
128-H-1_Shallow_3	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	19,397	--[c]	--
128-H-1_Shallow_4	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	2.5	--[c]	--
128-H-1_Shallow_4	non-Rad	Acenaphthene	83-32-9	ug/kg	15	--[c]	--
128-H-1_Shallow_4	non-Rad	Anthracene	120-12-7	ug/kg	1.3	--[c]	--
128-H-1_Shallow_4	non-Rad	Aroclor-1254	11097-69-1	ug/kg	9.4	3,224	No
128-H-1_Shallow_4	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19	--[b]	--
128-H-1_Shallow_4	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	9.9	--[c]	--
128-H-1_Shallow_4	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[c]	--
128-H-1_Shallow_4	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	11	--[c]	--
128-H-1_Shallow_4	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.3	--[c]	--
128-H-1_Shallow_4	non-Rad	Boron	7440-42-8	ug/kg	4,462	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
128-H-1_Shallow_4	non-Rad	Chrysene	218-01-9	ug/kg	11	--[c]	--
128-H-1_Shallow_4	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[c]	--
128-H-1_Shallow_4	non-Rad	Fluoranthene	206-44-0	ug/kg	28	--[c]	--
128-H-1_Shallow_4	non-Rad	Fluorene	86-73-7	ug/kg	4.3	--[c]	--
128-H-1_Shallow_4	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	156	6,000[a]	No
128-H-1_Shallow_4	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	5.3	--[c]	--
128-H-1_Shallow_4	non-Rad	Lead	7439-92-1	ug/kg	44,536	--[b]	--
128-H-1_Shallow_4	non-Rad	Mercury	7439-97-6	ug/kg	1,021	93	Yes
128-H-1_Shallow_4	non-Rad	Naphthalene	91-20-3	ug/kg	6.6	--[c]	--
128-H-1_Shallow_4	non-Rad	Pyrene	129-00-0	ug/kg	18	--[c]	--
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	10,082	--[c]	--
128-H-1_Shallow_4	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	48,270	--[c]	--
128-H-1_Shallow_5	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[c]	--
128-H-1_Shallow_5	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13	--[c]	--
128-H-1_Shallow_5	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	75	--[c]	--
128-H-1_Shallow_5	non-Rad	Chrysene	218-01-9	ug/kg	15	--[c]	--
128-H-1_Shallow_5	non-Rad	Fluoranthene	206-44-0	ug/kg	23	--[c]	--
128-H-1_Shallow_5	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	917	6,000[a]	No
128-H-1_Shallow_5	non-Rad	Mercury	7439-97-6	ug/kg	23	93	No
128-H-1_Shallow_5	non-Rad	Molybdenum	7439-98-7	ug/kg	490	--[c]	--
128-H-1_Shallow_5	non-Rad	Pyrene	129-00-0	ug/kg	30	--[c]	--
128-H-1_Shallow_5	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	160,000	--[c]	--
128-H-1_Shallow_5	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	357,773	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Acenaphthene	83-32-9	ug/kg	48	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Anthracene	120-12-7	ug/kg	2.4	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1254	11097-69-1	ug/kg	8.8	3,224	No
128-H-1_Staging pile area footprint_2	non-Rad	Aroclor-1260	11096-82-5	ug/kg	3.7	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Arsenic	7440-38-2	ug/kg	54,142	274,019	No
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	12	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	17	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	14	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	6.4	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Chrysene	218-01-9	ug/kg	10	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.6	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Fluoranthene	206-44-0	ug/kg	56	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Fluorene	86-73-7	ug/kg	12	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	13	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Lead	7439-92-1	ug/kg	124,843	--[b]	--
128-H-1_Staging pile area footprint_2	non-Rad	Mercury	7439-97-6	ug/kg	67	93	No
128-H-1_Staging pile area footprint_2	non-Rad	Pyrene	129-00-0	ug/kg	33	--[c]	--
128-H-1_Staging pile area footprint_2	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	23,047	--[c]	--
128-H-1_Staging pile area footprint_6	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	74	--[c]	--
128-H-1_Staging pile area footprint_6	non-Rad	Diethylphthalate	84-66-2	ug/kg	35	--[c]	--
128-H-1_Staging pile area footprint_6	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	233	6,000[a]	No
128-H-1_Staging pile area footprint_6	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	8,700	--[c]	--
128-H-1_Staging pile area footprint_6	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	23,494	--[c]	--
128-H-2_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	130	--[c]	--
128-H-2_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	22	--[c]	--
128-H-2_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	36	--[c]	--
128-H-2_Shallow_Focused	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	220	6,000[a]	No
128-H-2_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	4.0	--[c]	--
128-H-2_Shallow_Focused	non-Rad	Selenium	7782-49-2	ug/kg	1,200	10,689	No
128-H-2_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	4,100	--[c]	--
128-H-3_Shallow_Focused	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	1.7	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	18	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	37	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	28	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	27	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	160	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Butylbenzylphthalate	85-68-7	ug/kg	28	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Chrysene	218-01-9	ug/kg	20	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	120	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Fluoranthene	206-44-0	ug/kg	24	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Lead	7439-92-1	ug/kg	94,100	--[b]	--
128-H-3_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	40	1,037	No
128-H-3_Shallow_Focused	non-Rad	Methylene chloride	75-09-2	ug/kg	6.0	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Molybdenum	7439-98-7	ug/kg	680	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Pyrene	129-00-0	ug/kg	28	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	6,000	--[c]	--
128-H-3_Shallow_Focused	non-Rad	Total petroleum hydrocarbons - motor oil (high boiling)	TPH/OILH	ug/kg	13,000	--[c]	--
1607-H1_Overburden	non-Rad	Antimony	7440-36-0	ug/kg	420	--[c]	--
1607-H1_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	56	--[c]	--
1607-H1_Overburden	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	1.4	--[c]	--
1607-H1_Overburden	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	282	--[c]	--
1607-H1_Overburden	non-Rad	Dieldrin	60-57-1	ug/kg	2.0	8.4	No
1607-H1_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	71	--[c]	--
1607-H1_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	169	6,000[a]	No
1607-H1_Overburden	non-Rad	Lead	7439-92-1	ug/kg	60,452	--[b]	--
1607-H1_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	280	No
1607-H1_Overburden	non-Rad	Nitrate	14797-55-8	ug/kg	57,506	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
1607-H1_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	13,996	--[c]	--
1607-H1_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	96	--[c]	--
1607-H1_Overburden	non-Rad	Selenium	7782-49-2	ug/kg	979	3,662	No
1607-H1_Overburden	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--[b]	--
1607-H1_Shallow	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.0	--[c]	--
1607-H1_Shallow	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	1.3	--[b]	--
1607-H1_Shallow	non-Rad	Antimony	7440-36-0	ug/kg	208	--[c]	--
1607-H1_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	27	9,752	No
1607-H1_Shallow	non-Rad	Aroclor-1260	11096-82-5	ug/kg	14	--[b]	--
1607-H1_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	73	--[c]	--
1607-H1_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	68	--[c]	--
1607-H1_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	55	--[c]	--
1607-H1_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	211	--[c]	--
1607-H1_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	78	--[c]	--
1607-H1_Shallow	non-Rad	Dieldrin	60-57-1	ug/kg	3.9	8.4	No
1607-H1_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	253	--[c]	--
1607-H1_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	171	--[c]	--
1607-H1_Shallow	non-Rad	Fluoride	16984-48-8	ug/kg	4,029	--[c]	--
1607-H1_Shallow	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	137	6,000[a]	No
1607-H1_Shallow	non-Rad	Lead	7439-92-1	ug/kg	25,361	--[b]	--
1607-H1_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	97	280	No
1607-H1_Shallow	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	2,747	--[c]	--
1607-H1_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	233	--[c]	--
1607-H1_Shallow	Rad	Carbon-14	14762-75-5	pCi/g	1.5	--[b]	--
1607-H1_Shallow	Rad	Plutonium-238	13981-16-3	pCi/g	0.34	--[b]	--
1607-H1_Shallow	Rad	Tritium	10028-17-8	pCi/g	7.4	297	No
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrate	NO3-N	ug/kg	840	--[c]	--
1607-H1_Shallow_Focused	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	570	--[c]	--
1607-H2_Deep_Focused	non-Rad	Mercury	7439-97-6	ug/kg	62	151	No
1607-H2_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	23	--[c]	--
1607-H2_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	100	--[c]	--
1607-H2_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	130	--[c]	--
1607-H2_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	76	--[c]	--
1607-H2_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	94	--[c]	--
1607-H2_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	120	--[c]	--
1607-H2_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	230	--[c]	--
1607-H2_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	79	--[c]	--
1607-H2_Overburden	non-Rad	Lead	7439-92-1	ug/kg	54,900	--[b]	--
1607-H2_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	220	--[c]	--
1607-H2_Shallow	non-Rad	Aroclor-1254	11097-69-1	ug/kg	160	5,262	No
1607-H2_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	24	--[c]	--
1607-H2_Shallow	non-Rad	Chromium	7440-47-3	ug/kg	204,000	--[b]	--
1607-H2_Shallow	non-Rad	Di-n-butylphthalate	84-74-2	ug/kg	110	--[c]	--
1607-H2_Shallow	non-Rad	Lead	7439-92-1	ug/kg	37,629	--[b]	--
1607-H2_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	2,591	151	Yes
1607-H2_Shallow_Focused	non-Rad	Mercury	7439-97-6	ug/kg	65	151	No
1607-H3_Overburden	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	2.0	--[c]	--
1607-H3_Overburden	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	18	--[c]	--
1607-H3_Overburden	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	2.5	--[b]	--
1607-H3_Overburden	non-Rad	Acenaphthene	83-32-9	ug/kg	18	--[c]	--
1607-H3_Overburden	non-Rad	Anthracene	120-12-7	ug/kg	1.7	--[c]	--
1607-H3_Overburden	non-Rad	Aroclor-1254	11097-69-1	ug/kg	15	35,800	No
1607-H3_Overburden	non-Rad	Aroclor-1260	11096-82-5	ug/kg	9.4	--[b]	--
1607-H3_Overburden	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	7.2	--[c]	--
1607-H3_Overburden	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	11	--[c]	--
1607-H3_Overburden	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	8.7	--[c]	--
1607-H3_Overburden	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	3.9	--[c]	--
1607-H3_Overburden	non-Rad	Boron	7440-42-8	ug/kg	4,725	--[c]	--
1607-H3_Overburden	non-Rad	Chromium	7440-47-3	ug/kg	49,818	--[b]	--
1607-H3_Overburden	non-Rad	Chrysene	218-01-9	ug/kg	12	--[c]	--
1607-H3_Overburden	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	1.7	--[c]	--
1607-H3_Overburden	non-Rad	Endosulfan I	959-98-8	ug/kg	3.2	63	No
1607-H3_Overburden	non-Rad	Fluoranthene	206-44-0	ug/kg	22	--[c]	--
1607-H3_Overburden	non-Rad	Fluorene	86-73-7	ug/kg	1.4	--[c]	--
1607-H3_Overburden	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	129	6,000[a]	No
1607-H3_Overburden	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	7.0	--[c]	--
1607-H3_Overburden	non-Rad	Lead	7439-92-1	ug/kg	21,505	--[b]	--
1607-H3_Overburden	non-Rad	Mercury	7439-97-6	ug/kg	15	1,029	No
1607-H3_Overburden	non-Rad	Methylene chloride	75-09-2	ug/kg	11	--[c]	--
1607-H3_Overburden	non-Rad	Naphthalene	91-20-3	ug/kg	103	--[c]	--
1607-H3_Overburden	non-Rad	Nickel	7440-02-0	ug/kg	21,414	9.11E+06	No
1607-H3_Overburden	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	6,068	--[c]	--
1607-H3_Overburden	non-Rad	Pyrene	129-00-0	ug/kg	16	--[c]	--
1607-H3_Overburden	non-Rad	Silver	7440-22-4	ug/kg	840	11,591	No
1607-H3_Shallow_1	non-Rad	2-Methylnaphthalene	91-57-6	ug/kg	219	--[c]	--
1607-H3_Shallow_1	non-Rad	4,4'-DDD (Dichlorodiphenyldichloroethane)	72-54-8	ug/kg	1.6	--[c]	--
1607-H3_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	4.8	--[c]	--
1607-H3_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	10	--[b]	--
1607-H3_Shallow_1	non-Rad	Acenaphthene	83-32-9	ug/kg	409	--[c]	--
1607-H3_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	7.8	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
1607-H3_Shallow_1	non-Rad	Antimony	7440-36-0	ug/kg	389	--[c]	--
1607-H3_Shallow_1	non-Rad	Aroclor-1254	11097-69-1	ug/kg	11	35,800	No
1607-H3_Shallow_1	non-Rad	Aroclor-1260	11096-82-5	ug/kg	19	--[b]	--
1607-H3_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	11	--[c]	--
1607-H3_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	4.6	--[c]	--
1607-H3_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	3.7	--[c]	--
1607-H3_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	4.2	--[c]	--
1607-H3_Shallow_1	non-Rad	beta-1,2,3,4,5,6-Hexachlorocyclohexane (beta-BHC)	319-85-7	ug/kg	4.6	--[c]	--
1607-H3_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	43	--[c]	--
1607-H3_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.3	--[c]	--
1607-H3_Shallow_1	non-Rad	Endosulfan I	959-98-8	ug/kg	3.0	63	No
1607-H3_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	69	--[c]	--
1607-H3_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	76	--[c]	--
1607-H3_Shallow_1	non-Rad	Naphthalene	91-20-3	ug/kg	169	--[c]	--
1607-H3_Shallow_1	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	1,980	--[c]	--
1607-H3_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	22	--[c]	--
1607-H3_Shallow_2	non-Rad	Acenaphthene	83-32-9	ug/kg	10	--[c]	--
1607-H3_Shallow_2	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	133	6,000[a]	No
1607-H3_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	16	1,029	No
1607-H3_Shallow_2	non-Rad	Naphthalene	91-20-3	ug/kg	7.6	--[c]	--
1607-H3_Shallow_2	non-Rad	Nitrogen in Nitrite and Nitrate	NO2+NO3-N	ug/kg	541	--[c]	--
1607-H4_Shallow	non-Rad	Acenaphthene	83-32-9	ug/kg	100	--[c]	--
1607-H4_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	280	--[c]	--
1607-H4_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	365	--[c]	--
1607-H4_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	381	--[c]	--
1607-H4_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	356	--[c]	--
1607-H4_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	355	--[c]	--
1607-H4_Shallow	non-Rad	Bis(2-ethylhexyl) phthalate	117-81-7	ug/kg	32	--[c]	--
1607-H4_Shallow	non-Rad	Carbazole	86-74-8	ug/kg	120	--[c]	--
1607-H4_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	389	--[c]	--
1607-H4_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	22	--[c]	--
1607-H4_Shallow	non-Rad	Dibenzofuran	132-64-9	ug/kg	42	--[c]	--
1607-H4_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	1,300	--[c]	--
1607-H4_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	93	--[c]	--
1607-H4_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	180	--[c]	--
1607-H4_Shallow	non-Rad	Lead	7439-92-1	ug/kg	44,100	--[b]	--
1607-H4_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	40	16,981	No
1607-H4_Shallow	non-Rad	Naphthalene	91-20-3	ug/kg	25	--[c]	--
1607-H4_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	1,200	--[c]	--
600-151_Shallow_1	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.70	--[c]	--
600-151_Shallow_1	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.89	--[b]	--
600-151_Shallow_1	non-Rad	Acetone	67-64-1	ug/kg	6.8	--[c]	--
600-151_Shallow_1	non-Rad	Anthracene	120-12-7	ug/kg	5.4	--[c]	--
600-151_Shallow_1	non-Rad	Arsenic	7440-38-2	ug/kg	31,816	883,126	No
600-151_Shallow_1	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	75	--[c]	--
600-151_Shallow_1	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	58	--[c]	--
600-151_Shallow_1	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	46	--[c]	--
600-151_Shallow_1	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	23	--[c]	--
600-151_Shallow_1	non-Rad	Boron	7440-42-8	ug/kg	4,859	--[c]	--
600-151_Shallow_1	non-Rad	Chrysene	218-01-9	ug/kg	59	--[c]	--
600-151_Shallow_1	non-Rad	Copper	7440-50-8	ug/kg	22,587	33,758	No
600-151_Shallow_1	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	23	--[c]	--
600-151_Shallow_1	non-Rad	Fluoranthene	206-44-0	ug/kg	125	--[c]	--
600-151_Shallow_1	non-Rad	Fluorene	86-73-7	ug/kg	6.7	--[c]	--
600-151_Shallow_1	non-Rad	Hexavalent Chromium	18540-29-9	ug/kg	264	6,000[a]	No
600-151_Shallow_1	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	45	--[c]	--
600-151_Shallow_1	non-Rad	Lead	7439-92-1	ug/kg	126,984	--[b]	--
600-151_Shallow_1	non-Rad	Mercury	7439-97-6	ug/kg	15	299	No
600-151_Shallow_1	non-Rad	Methylene chloride	75-09-2	ug/kg	2.0	--[c]	--
600-151_Shallow_1	non-Rad	Pyrene	129-00-0	ug/kg	159	--[c]	--
600-151_Shallow_1	non-Rad	Selenium	7782-49-2	ug/kg	940	3,902	No
600-151_Shallow_1	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	17,454	--[c]	--
600-151_Shallow_1	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	30,037	--[c]	--
600-151_Shallow_2	non-Rad	2-Butanone	78-93-3	ug/kg	6.9	--[c]	--
600-151_Shallow_2	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	0.47	--[c]	--
600-151_Shallow_2	non-Rad	Acetone	67-64-1	ug/kg	30	--[c]	--
600-151_Shallow_2	non-Rad	Arsenic	7440-38-2	ug/kg	59,606	883,126	No
600-151_Shallow_2	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	24	--[c]	--
600-151_Shallow_2	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	25	--[c]	--
600-151_Shallow_2	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	25	--[c]	--
600-151_Shallow_2	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[c]	--
600-151_Shallow_2	non-Rad	Cadmium	7440-43-9	ug/kg	596	261	Yes
600-151_Shallow_2	non-Rad	Chrysene	218-01-9	ug/kg	29	--[c]	--
600-151_Shallow_2	non-Rad	Fluoranthene	206-44-0	ug/kg	60	--[c]	--
600-151_Shallow_2	non-Rad	Lead	7439-92-1	ug/kg	266,765	--[b]	--
600-151_Shallow_2	non-Rad	Mercury	7439-97-6	ug/kg	13	299	No
600-151_Shallow_2	non-Rad	Methylene chloride	75-09-2	ug/kg	11	--[c]	--
600-151_Shallow_2	non-Rad	Pyrene	129-00-0	ug/kg	72	--[c]	--
600-151_Shallow_2	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	1,660	--[c]	--
600-151_Shallow_2	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	6,646	--[c]	--

Table 7-11. Comparison of EPCs from 100-H Source Operable Unit Waste Site Decision Units to STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Levels Protective of Surface Water

Waste Site/Decision Unit	Analyte Group	Analyte Name	CAS No.	Units	Exposure Point Concentration	STOMP 1D 70:30/100:0 Contaminant Source Model Soil Screening Level for Groundwater Protection Scaled to Site Length in Direction of GW Flow	Is EPC > Soil Screening Level Protective of Surface Water?
600-151_Shallow_3	non-Rad	4,4'-DDE (Dichlorodiphenyldichloroethylene)	72-55-9	ug/kg	3.4	--[c]	--
600-151_Shallow_3	non-Rad	4,4'-DDT (Dichlorodiphenyltrichloroethane)	50-29-3	ug/kg	0.91	--[b]	--
600-151_Shallow_3	non-Rad	Anthracene	120-12-7	ug/kg	6.7	--[c]	--
600-151_Shallow_3	non-Rad	Arsenic	7440-38-2	ug/kg	53,961	883,126	No
600-151_Shallow_3	non-Rad	Barium	7440-39-3	ug/kg	215,867	--[c]	--
600-151_Shallow_3	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	38	--[c]	--
600-151_Shallow_3	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	39	--[c]	--
600-151_Shallow_3	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	31	--[c]	--
600-151_Shallow_3	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	16	--[c]	--
600-151_Shallow_3	non-Rad	Chrysene	218-01-9	ug/kg	45	--[c]	--
600-151_Shallow_3	non-Rad	Fluoranthene	206-44-0	ug/kg	69	--[c]	--
600-151_Shallow_3	non-Rad	Fluorene	86-73-7	ug/kg	9.0	--[c]	--
600-151_Shallow_3	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	31	--[c]	--
600-151_Shallow_3	non-Rad	Lead	7439-92-1	ug/kg	276,283	--[b]	--
600-151_Shallow_3	non-Rad	Mercury	7439-97-6	ug/kg	29	299	No
600-151_Shallow_3	non-Rad	Methylene chloride	75-09-2	ug/kg	3.4	--[c]	--
600-151_Shallow_3	non-Rad	Naphthalene	91-20-3	ug/kg	18	--[c]	--
600-151_Shallow_3	non-Rad	Pyrene	129-00-0	ug/kg	93	--[c]	--
600-151_Shallow_3	non-Rad	Total petroleum hydrocarbons - diesel range	TPHDIESEL	ug/kg	4,406	--[c]	--
600-151_Shallow_3	non-Rad	otal petroleum hydrocarbons - diesel range extended to C3	TPHDIESELEXT	ug/kg	17,034	--[c]	--
600-152_Shallow	non-Rad	Anthracene	120-12-7	ug/kg	15	--[c]	--
600-152_Shallow	non-Rad	Benzo(a)anthracene	56-55-3	ug/kg	13	--[c]	--
600-152_Shallow	non-Rad	Benzo(a)pyrene	50-32-8	ug/kg	15	--[c]	--
600-152_Shallow	non-Rad	Benzo(b)fluoranthene	205-99-2	ug/kg	13	--[c]	--
600-152_Shallow	non-Rad	Benzo(k)fluoranthene	207-08-9	ug/kg	5.6	--[c]	--
600-152_Shallow	non-Rad	Chrysene	218-01-9	ug/kg	10	--[c]	--
600-152_Shallow	non-Rad	Copper	7440-50-8	ug/kg	23,251	1.92E+06	No
600-152_Shallow	non-Rad	Dibenz[a,h]anthracene	53-70-3	ug/kg	2.0	--[c]	--
600-152_Shallow	non-Rad	Fluoranthene	206-44-0	ug/kg	39	--[c]	--
600-152_Shallow	non-Rad	Fluorene	86-73-7	ug/kg	1.7	--[c]	--
600-152_Shallow	non-Rad	Indeno(1,2,3-cd)pyrene	193-39-5	ug/kg	10	--[c]	--
600-152_Shallow	non-Rad	Lead	7439-92-1	ug/kg	13,578	--[b]	--
600-152_Shallow	non-Rad	Mercury	7439-97-6	ug/kg	13	16,981	No
600-152_Shallow	non-Rad	Pyrene	129-00-0	ug/kg	18	--[c]	--
600-152_Shallow	Rad	Total beta radiostrontium	SR-RAD	pCi/g	0.27	156,531	No

Notes:

a. The soil screening level for hexavalent chromium is set to a maximum value of 6,000 µg/kg because the kd value used in the model was derived from experiments with soil concentration less than 6,000 µg/kg.

of the set of representative stratigraphic columns, where breakthrough is defined as a mass concentration exceeding 0.0001 µg/L for nonradionuclides or an activity concentration exceeding 0.0001 pCi/L for radionuclides.

c. A soil screening level is not calculated because a surface water cleanup level or surface water standard is not available for the analyte.
-- = Not applicable or no value.

Table 7-12. Evaluation of 100-H Waste Site Data with EPCs Greater than Soil Screening Levels

Waste Site	COPC	Is EPC > SSL Protective of Groundwater?	Is EPC > SSL Protective of Surface Water?	Is EPC > PRG Protective of Groundwater?	Is EPC > PRG Protective of Surface Water?
100-H-40_Shallow_Focused	Copper	No	Yes [a]	No	No
116-H-7_Deep	Mercury	No	Yes [b]	No	No
118-H-1:1_Shallow_Focused	Mercury	No	Yes [c]		
118-H-3_Shallow_1	Copper	No	Yes [d]	No	No
118-H-6:5_Shallow_1	Arsenic	Yes [e]	No	No	No
118-H-6:5_Shallow_2	Mercury	No	Yes [f]		
118-H-6:5_Shallow_Focused	Arsenic	Yes [e]	No	No	No
118-H-6:5_Shallow_Focused	Copper	No	Yes [g]	No	No
128-H-1_Overburden	Arsenic	Yes [e]	No	No	No
128-H-1_Shallow_4	Mercury	No	Yes [h]	No	No
128-H-1_Staging pile area Footprint_2	Arsenic	Yes [e]	No	No	No
1607-H-2_Shallow	Mercury	No	Yes [i]	No	No
600-151_Shallow_1	Arsenic	Yes [e]	No	No	No
600-151_Shallow_2	Arsenic	Yes [e]	No	No	No
600-151_Shallow_2	Cadmium	No	Yes [j]	No	No
600-151_Shallow_3	Arsenic	Yes [e]	No	No	No

a. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for copper (25,700 µg/kg) is based on defaulting to the maximum detection from a set of 10 soil samples. Copper concentrations at this decision unit ranged between 11,900 and 25,700 µg/kg, which are within the range of naturally occurring levels (22,000 to 61,000 µg/kg) measured at the Hanford Site.

b. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for mercury (1,002 µg/kg) is based on 97.5% KM UCL from a set of 15 soil samples. Mercury was detected in 14 of the 15 samples. A sin sample reported a concentration of 1,100 µg/kg, with the remaining 13 samples ranging in concentration 10 and 860 µg/kg. As such, these detections represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the AWQC.

c. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for mercury (202 µg/kg) is based on defaulting to the maximum detection from a set of 18 soil samples. Mercury was detected in seven of the 18 samples at concentrations ranging between 11 and 202 µg/kg. As such, these detections represent a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the AWQC.

d. Exceeded SWP SSL but eliminated through further evaluation; The EPC for copper (23,535 µg/kg) is based on the 95% UCL from a set of 12 samples. Copper was detected in all 12 samples with concentrations ranging between 9,800 and 40,900 µg/kg. Measured copper concentrations are within the range of naturally occurring levels (22,000 to 61,000 µg/kg) measured at the Hanford Site.

e. Exceeded GWP SSL, but eliminated through further evaluation. This waste site is located proximal to former orchard lands, and the source for the elevated arsenic concentrations is attributed to pesticide applications and not to 100-DH operations. This site will be addressed as part of the orchard lands 100-OL-1 OU.

f. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for mercury (167 µg/kg) is based on 97.5% Kaplan Meier UCL from a set of 12 soil samples. Mercury was detected in two of 12 samples with concentrations of 18 and 207 µg/kg. As such, the single detection above the SSL represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the AWQC.

g. Exceeded SWP SSL but eliminated through further evaluation; The EPC for copper (23,535 µg/kg) is based on the 95% UCL from a set of 12 samples. Copper was detected in all 12 samples with concentrations ranging between 9,800 and 40,900 µg/kg. Measured copper concentrations are within the range of naturally occurring levels (22,000 to 61,000 µg/kg) measured at the Hanford Site.

h. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for mercury (1,021 µg/kg) is based on 99% KM UCL from a set of 12 soil samples. Mercury was detected in six of the 12 samples. A single sample reported a concentration of 1,070 µg/kg, with the remaining five samples ranging in concentration 8 and 48 µg/kg. As such, these detections represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the AWQC.

i. Exceeded SWP SSL, but eliminated through further evaluation. The calculated EPC for mercury (2,591 µg/kg) is based on the 95% KM UCL from a set of eight soil samples. Mercury was detected in six of the eight samples at concentrations ranging between 100 and 3,500 µg/kg. Two samples reported concentrations greater than the SSL, and the remaining four reported concentrations less than the SSL. As such, the two detections above the SSL represents a very low mass of potential contamination, and there is not a significant potential that contamination could migrate through the vadose zone and result in a groundwater concentration above the AWQC.

j. Exceeded GWP and SWP SSL, but eliminated through further evaluation. The calculated EPC for cadmium (596 µg/kg) is based on the 95% UCL from a set of 12 soil samples. Cadmium concentrations within this decision unit range between 120 and 950 µg/kg which are within the range of naturally occurring levels (563 to 2,980 µg/kg) measured at the Hanford Site.