Analytical Data Package Prepared For

CH2M Hill Plateau Remediation

Radiochemical Analysis By

TestAmerica Inc

2800 G.W. Way, Richland Wa, 99354, (509)-375-3131.

Assigned Laboratory Code: TARL

Data Package Contains 68 ***Pages***

Report No.: 72579

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W08026	I18-005	B3H302	J8C060404-1	NANXL2AA	9NANXL20	8081010
	S18-002	B3H481	J8C060403-1	NANXK1AA	9NANXK10	8073038
		B3H481	J8C060403-1	NANXK1AC	9NANXK10	8073041
	I18-006	B3HDH8	J8C120402-1	NAN5L1AA	9NAN5L10	8073037
		B3HDH8	J8C120402-1	NAN5L1AC	9NAN5L10	8073038
	I18-007	B3HDP0	J8C080403-6	NAN2X1AA	9NAN2X10	8073036
		B3HDP1	J8C080403-1	NAN2Q2AA	9NAN2Q20	8081010
		B3HDP4	J8C080403-3	NAN2T1AA	9NAN2T10	8073039
		B3HDP4	J8C080403-3	NAN2T1AC	9NAN2T10	8073040
		B3HDP8	J8C080403-2	NAN2R1AE	9NAN2R10	8073039
		B3HDP8	J8C080403-2	NAN2R1AF	9NAN2R10	8073040
		B3HDP8	J8C080403-2	NAN2R1AD	9NAN2R10	8073041
		B3HDP9	J8C080403-4	NAN2V1AD	9NAN2V10	8073039
		B3HDP9	J8C080403-4	NAN2V1AE	9NAN2V10	8073040
		B3HDP9	J8C080403-4	NAN2V1AC	9NAN2V10	8073041
		B3HDR4	J8C080403-7	NAN201AA	9NAN2010	8073036
		B3HDR5	J8C080403-5	NAN2W1AA	9NAN2W10	8073036
	S18-003	B3HHX8	J8C080404-4	NAN251AA	9NAN2510	8073038
		B3HHY3	J8C080404-1	NAN221AA	9NAN2210	8073037
		B3HHY4	J8C080404-3	NAN241AA	9NAN2410	8073037
		B3HHY8	J8C080404-6	NAN271AA	9NAN2710	8073038
		B3HHY9	J8C080404-5	NAN261AA	9NAN2610	8073038
	W18-003	B3HJD2	J8C060402-2	NANXJ2AA	9NANXJ20	8081012
		B3HJD3	J8C060402-1	NANXH2AA	9NANXH20	8081012
	S18-003	B3HLR5	J8C080404-2	NAN231AA	9NAN2310	8073037
	I18-007	B3HLT3	J8C080403-8	NAN211AA	9NAN2110	8073036

Report No.: 72579

Results in this report relate only to the sample(s) analyzed.

SDG No.	Order No.	Client Sample ID (List Order)	Lot-Sa No.	Work Order	Report DB ID	Batch No.
W08026	I18-007	B3HLT7	J8C080403-9	NAN291AA	9NAN2910	8073036

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Certificate of Analysis

CH2M Hill Plateau Remediation Company
P.O. Box 1600
Mail Stop – R3-60
Richland, WA 99352

April 6, 2018

Attention: Scot Fitzgerald

SAF Number	:	W18-003, S18-002, I18-005, I18-007, S18-003, I18-006
Date SDG Closed	:	March 9, 2018
Number of Samples	:	Twenty (20)
Sample Type	:	Water
SDG Number	:	W08026
Data Deliverable	:	30-Day / Summary

CASE NARRATIVE

I. Introduction

Between March 6, 2018 and March 9, 2018, twenty samples were received at TestAmerica (TARL). Upon receipt, the samples were assigned laboratory ID numbers to correspond with the CH2M specific IDs.

II. Sample Receipt

The samples were received in good condition and no anomalies were noted during check-in.

III. Analytical Results/Methodology

The analytical results for this report are presented by laboratory sample ID. Each set of data includes sample identification information, analytical results and the appropriate associated statistical errors.

The requested analyses were:

Gas Proportional Counting
Gross Alpha by method RL-GPC-001
Radium-228 by method RL-RA-001
Alpha Scintillation Counting
Radium-226 by method RL-RA-001
Gamma Spectroscopy
Iodine-129 (LL) by method RL-GAM-002

Liquid Scintillation Counting
Carbon-14 by method RL-LSC-008
Technetium-99 by TEVA method RL-LSC-014
Tritium by method RL-LSC-005

IV. Quality Control

The analytical results for each analysis performed includes a minimum of one laboratory control sample (LCS), one method (reagent) blank, and one duplicate sample analysis. Any exceptions have been noted in the "Comments" section. QC and sample results are reported in the same units.

V. Comments

Gas Proportional Counting
Gross Alpha by method RL-GPC-001:
No analytical or quality issues were noted. The sample result and associated batch QC results are within contractual requirements.

Radium-228 by method RL-RA-001:
No analytical or quality issues were noted. The sample result and associated batch QC results are within contractual requirements.

Alpha Scintillation Counting
Radium-226 by method RL-RA-001:
No analytical or quality issues were noted. The sample result and associated batch QC results are within contractual requirements.

Gamma Spectroscopy
Iodine-129 (LL) by method RL-GAM-002:
The sample and its duplicate do not show acceptable agreement. For more information see the attached SIR. No analytical or quality issues were noted. The sample result and associated batch QC results are within contractual requirements.

Liquid Scintillation Counting
Carbon-14 by method RL-LSC-008:
No analytical or quality issues were noted. The sample result and associated batch QC results are within contractual requirements.

Technetium-99 by TEVA method RL-LSC-014:
No analytical or quality issues were noted. The sample result and associated batch QC results are within contractual requirements.

Tritium by method RL-LSC-005:
The yield calculated for the matrix recovery is outside acceptance criteria. No other analytical or quality issues were noted. Except as noted, the sample result and associated batch QC results are within contractual requirements.

CH2M Hill Plateau Remediation Company
April 6, 2018

We certify that this data package is in compliance with the SOW, both technically and for completeness, including a full description of, explanation of, and corrective actions for, any and all deviations, from either the analyses requested or the case narrative requested. Release of the data contained in this hard copy data package has been authorized by the Laboratory Analytical Manager (or designee) and the laboratory's client services representative as verified by their signatures on this report.

Reviewed and approved:

Digitally signed by Ashley L. Worthy
Date: 2018.04.06 10:45:27 -07'00'

Ashley L. Worthy
Project Manager

SAMPLE ISSUE RESOLUTION (SIR) REPORT

SIR Number: SIR18-0617
Rev. Number: 0
Date Initiated: 04/05/2018

SAMPLE EVENT INFORMATION

SAF NUM(S): I18-006

LABORATORY: TARL

SAMPLING INFORMATION

NUMBER OF SAMPLES: 1

SAMPLE NUMBERS: B3HDH8

SAMPLE MATRIX: WATER

SDG NUM(S): W08026

ISSUE BACKGROUND

CLASS: Laboratory Issue

TYPE: Quality Control Failure

DESCRIPTION: For the I129 analysis, the RPD between sample B3HDH8 and the sample duplicate is outside duplicate agreement criteria with an RPD of 26.95%. A recount confirmed the results. Both the sample and duplicate have results that exceed the MDA, but are less than the CRDL. The sample and duplicate results are 5 times greater than the CRDL.

RESOLUTION

PROPOSED RESOLUTION: Report results and include comment in the case narrative that RPD agreement is outside acceptance criteria.

FINAL RESOLUTION: Proposed resolution is accepted.

SUBMITTED BY:

WORTHY, A — 04/05/2018

ACCEPTED BY:

MEDLEY, HA — 04/05/2018

Drinking Water Method Cross References

	DRINKING WATER ASTM METHOD CROSS REFERENCES	
Referenced Method	**Isotope(s)**	**TestAmerica Richland's SOP No.**
EPA 901.1	Cs-134, I-131	RL-GAM-001
EPA 900.0	Alpha & Beta	RL-GPC-001
EPA 00-02	Gross Alpha (Coprecipitation)	RL-GPC-002
EPA 903.0	Total Alpha Radium (Ra-226)	RL-RA-002
EPA 903.1	Ra-226	RL-RA-001
EPA 904.0	Ra-228	RL-RA-001
EPA 905.0	Sr-89/90	RL-GPC-003
ASTM D5174	Uranium	RL-KPA-003
EPA 906.0	Tritium	RL-LSC-005

Results in this report relate only to the sample(s) analyzed.

Uncertainty Estimation

TestAmerica Richland has adopted the internationally accepted approach to estimating uncertainties described in “NIST Technical Note 1297, 1994 Edition”. The approach, "Law of Propagation of Errors", involves the identification of all variables in an analytical method which are used to derive a result. These variables are related to the analytical result (R) by some functional relationship, R = constants * f(x,y,z,...). The components (x,y,z) are evaluated to determine their contribution to the overall method uncertainty. The individual component uncertainties (u_i) are then combined using a statistical model that provides the most probable overall uncertainty value. All component uncertainties are categorized as type A, evaluated by statistical methods, or type B, evaluated by other means. Uncertainties not included in the components, such as sample homogeneity, are combined with the component uncertainty as the square root of the sum-of-the-squares of the individual uncertainties. The uncertainty associated with the derived result is the combined uncertainty (u_c) multiplied by the coverage factor (1,2, or 3).

When three or more sample replicates are used to derive the analytical result, the type A uncertainty is the standard deviation of the mean value (S/?n), where S is the standard deviation of the derived results. The type B uncertainties are all other random or non-random components that are not included in the standard deviation.

The derivation of the general "Law of Propagation of Errors" equations and specific example are available on request.

Report Definitions

Action Lev	An agreed upon activity level used to trigger some action when the final result is greater than or equal to the Action Level. Often the Action Level is related to the Decision Limit.
Batch	The QC preparation batch number that relates laboratory samples to QC samples that were prepared and analyzed together.
Bias	Defined by the equation (Result/Expected)-1 as defined by ANSI N13.30.
COC No	Chain of Custody Number assigned by the Client or TestAmerica.
Count Error (#s)	Poisson counting statistics of the gross sample count and background. The uncertainty is absolute and in the same units as the result. For Liquid Scintillation Counting (LSC) the batch blank count is the background.
CSU (#s) ***u_c Combined Standard Uncert.***	All known uncertainties associated with the preparation and analysis of the sample are propagated to give a measure of the uncertainty associated with the result, *u_c the combined standard uncertainty*. The uncertainty is absolute and in the same units as the result.
(#s), Coverage Factor	The coverage factor defines the width of the confidence interval, 1, 2 or 3 standard deviations.
CRDL (RL)	Contractual Required Detection Limit as defined in the Client's Statement Of Work or TestAmerica "default" nominal detection limit. Often referred to the reporting level (RL)
Lc	Decision Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume associated with the sample. The Type I error probability is approximately 5%. Lc=(1.645 * Sqrt(2*(BkgrndCnt/BkgrndCntMin)/SCntMin)) * (ConvFct/(Eff*Yld*Abn*Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability. Lc cannot be calculated when the background count is zero.
Lot-Sample No	The number assigned by the LIMS software to track samples received on the same day for a given client. The sample number is a sequential number assigned to each sample in the Lot.
MDC|MDA|MDL	Detection Level based on instrument background or blank, adjusted by the Efficiency, Chemical Yield, and Volume with a Type I and II error probability of approximately 5%. MDC = (4.65 * Sqrt((BkgrndCnt/BkgrndCntMin)/SCntMin) + 2.71/SCntMin) * (ConvFct/(Eff * Yld * Abn * Vol) * IngrFct). For LSC methods the batch blank is used as a measure of the background variability.
Primary Detector	The instrument identifier associated with the analysis of the sample aliquot.
Ratio U-234/U-238	The U-234 result divided by the U-238 result. The U-234/U-238 ratio for natural uranium in NIST SRM 4321C is 1.038.
Rst/MDC	Ratio of the Result to the MDC. A value greater than 1 may indicate activity above background at a high level of confidence. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Rst/TotUcert	Ratio of the Result to the Total Uncertainty. If the uncertainty has a coverage factor of 2 a value greater than 1 may indicate activity above background at approximately the 95% level of confidence assuming a two-sided confidence interval. Caution should be used when applying this factor and it should be used in concert with the qualifiers associated with the result.
Report DB No	Sample Identifier used by the report system. The number is based upon the first five digits of the **Work Order** Number.
RER	The equation Replicate Error Ratio = (S-D)/[sqrt($TPUs^2$ + $TPUd^2$)] as defined by ICPT BOA where S is the original sample result, D is the result of the duplicate, TPUs is the total uncertainty of the original sample and TPUd is the total uncertainty of the duplicate sample.
SDG	Sample Delivery Group Number assigned by the Client or assigned by TestAmerica upon sample receipt.
Sum Rpt Alpha Spec Rst(s)	The sum of the reported alpha spec results for tests derived from the same sample excluding duplicate result where the results are in the same units.
Work Order	The LIMS software assign test specific identifier.
Yield	The recovery of the tracer added to the sample such as Pu-242 used to trace a Pu-239/40 method.

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# W18-003-137 Page 1 of 1

Collector:	Larry Rosane CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	W18-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/51	**Ice Chest No.:**	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HJD3	N	W	3-6-18	1024	1x1-L P	9310_ALPHABETA_GPC: Gross Alpha NANXH	6 Months	HNO3 to pH <2

Page 9 of 68

J8C060402
WO8026

04/06/2018

J8C060402

Relinquished By:	Print First and Last Name	Signature	Date/Time	Received By:	Print First and Last Name	Signature	Date/Time
Larry Rosane CHPRC	Larry Rosane		MAR 0 6 2018 1220	Troy Bacon CHPRC	Troy L. Bacon		MAR 0 6 2018 1220
Troy Bacon CHPRC	Troy L. Bacon		MAR 0 6 2018 1425		J. Bock, TARL		3-6-18 1425

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # W18-003-136

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	W18-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	RCRA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/51	**Ice Chest No.:**	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	RCRA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HJD2	N	W	3-6-18	1024	1x1-L P	9310_ALPHABETA_GPC: Gross Alpha NANYJ	6 Months	HNO3 to pH <2

Page 10 of 68

18C060402
W008026

04/06/2018

Relinquished By:	Received By:
Larry Rosane /CHPRC — Larry Rosane — MAR 06 2018 1220 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 06 2018 1220 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 06 2018 1425 (Print First and Last Name / Signature / Date/Time)	J. Bock, TARL — Bock — 3-6-18 / 1425 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/06/2018 **REV.0**

Sample Check-in List

Date/Time Received: 3-6-18 / 1425 Container GM Screen Result: (Airlock) 0 cpm Initials[ ]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials[ ]
Container Alpha Screen Result: (Airlock) 0 cpm Initials[ ]
Sample Alpha Screen Result (Sample Receiving) 0 cpm Initials[ ]

Client: PLW SDG #: W08026 SAF #: W18-003 NA [ ]

Lot Number: J8C060402

Chain of Custody # W18-003-137, 136

Shipping Container ID or Air Bill Number : _____ NA [ ]

Samples received inside shipping container/cooler/box Yes [ ] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [ ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [ ]
3. Cooler temperature: 2.8 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [ ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [ ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 2
7. Containers received: 2 x Lp
8. Sample holding times exceeded? NA [ ] Yes [ ] No [ ]
9. Samples have: ____tape ____hazard labels ____custody seals ____appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) ____I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
____are in good condition ____are leaking ____are broken
____have air bubbles (Only for samples requiring no head space) ____Other _____
12. Sample pH appropriate for analysis requested Yes [ ] No [ ] NA [ ]
(If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [ ]
14. Description of anomalies (include sample numbers): NA [ ] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [ ] No [ ]
*For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [ ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: Julie Beck Date: 3-6-18

Client Notification needed? Yes [ ] No [✓] Date: _____
By: _____
Person contacted: _____

[✓] No action necessary; process as is

Project Manager Susan Kilb Date 3-7-18

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S18-002-451

Collector: Juan Aguilar /CHPRC	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: S18-002	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: Sitewide Surv, February 2018	**Logbook No.:** HNF-N-506 -9916	**Ice Chest No.:** N/A
Shipped To (Lab): TestAmerica Incorporated, Rich	**Method of Shipment** GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:** N/A
Protocol SURV	**Priority:** 30 Days	**Offsite Property No.:** N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
Low Volume Wells. Do not use for QC.

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3H481	N	W	3-6-18	1011	2x1-L G/P	I129LL_SEP_LEPS_GS_LL: COMMON	6 Months	None
B3H481	N	W	3-6-18	1011	1x125-mL P	TC99_ETVDSK_LSC: COMMON NANYK	6 Months	HCl to pH <2

J8C060403
W08026

04/06/2018

J8C060403

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
Juan Aguilar /CHPRC			MAR 0 6 2018 1150	Troy Bacon CHPRC		Troy L Bacon	MAR 0 6 2018 1150
Troy Bacon CHPRC		Troy L Bacon	MAR 0 6 2018 1425		J. Bock, TARL		3-6-18 1425

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 1/4/2018 FSR ID = FSR55846 A-6004-842 (REV 3)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/06/2018 **REV.0**

Sample Check-in List

Date/Time Received: 3-6-18 / 1425

Container GM Screen Result: (Airlock) 0 cpm Initials[B]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials[ ]
Container Alpha Screen Result: (Airlock) 0 cpm Initials[ ]
Sample Alpha Screen Result (Sample Receiving) 0 cpm Initials[ ]

Client: PGW SDG #: WO8026 SAF #: S18-002 NA [ ]

Lot Number: J8C060403

Chain of Custody # S18-002-451

Shipping Container ID or Air Bill Number : _____ NA [B]

Samples received inside shipping container/cooler/box Yes [B] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [B]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [B]
3. Cooler temperature: 2.8 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [B] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [B] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 1 x 125 mLp; 2 x Lp
8. Sample holding times exceeded? NA [ ] Yes [ ] No [B]
9. Samples have: ____tape ____hazard labels B custody seals B appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) B I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    B are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other ____
12. Sample pH appropriate for analysis requested Yes [B] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [B]
14. Description of anomalies (include sample numbers): NA [B] ____
15. Sample Location, Sample Collector Listed on COC? * Yes [B] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [B] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: [signature] Date: 3-6-18

Client Notification needed? Yes [ ] No [✓] Date: ____
By: ____
Person contacted: ____

[✓] No action necessary; process as is

Project Manager [signature] Date 3-7-18

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C.# I18-005-031 Page 1 of 1

Collector: Tim Calloway /CHPRC	**Contact/Requester:** Karen Waters-Husted	**Telephone No.:** 509-376-4650
SAF No.: I18-005	**Sampling Origin:** Hanford Site	**Purchase Order/Charge Code:** 300071
Project Title: GW-IA Monitoring, February 201	**Logbook No.:** ~~HNE-N-505~~ RT 3.5.18 49119	**Ice Chest No.:** N/A
Shipped To (Lab): TestAmerica Incorporated, Rich	**Method of Shipment** GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:** N/A
Protocol SURV	**Priority:** 30 Days	**Offsite Property No.:** N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3H302	N	W	MAR 05 2018	1145	1x500-mL P	TC99_ETVDSK_LSC: COMMON NANXL	6 Months	HCl to pH <2

Page 14 of 68

J8C060404
WO8026

04/06/2018

J8C060404

Relinquished By:	Received By:
Tim Calloway /CHPRC — T. Calloway — MAR 05 2018 1245 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 05 2018 1245 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 05 2018 1545 (Print First and Last Name / Signature / Date/Time)	SSU-1 — MAR 05 2018 1545 (Print First and Last Name / Signature / Date/Time)
SSU-1 — MAR 06 2018 1335 (Print First and Last Name / Signature / Date/Time)	Daniel Klug CHPRC — D. Klug — MAR 06 2018 1335 (Print First and Last Name / Signature / Date/Time)
Daniel Klug CHPRC — D. Klug — MAR 06 2018 1425 (Print First and Last Name / Signature / Date/Time)	J. Bock, TARL — 3-6-18 1425 (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/06/2018

Sample Check-in List

REV.0

Date/Time Received: 3-6-18 / 1425

Container GM Screen Result: (Airlock) 0 cpm Initials[B]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials[ ]
Container Alpha Screen Result: (Airlock) 0 cpm Initials[ ]
Sample Alpha Screen Result (Sample Receiving) 0 cpm Initials[ ]

Client: PGW SDG #: WD8026 SAF #: I18-005 NA [ ]

Lot Number: J8C060404

Chain of Custody # I18-005-031

Shipping Container ID or Air Bill Number : _____ NA [B]

Samples received inside shipping container/cooler/box Yes [B] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [B]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [B]
3. Cooler temperature: 2.8 °C Ice NA [ ]
4. Vermiculite/packing materials is NA [B] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [B] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 1 x 500 mLp
8. Sample holding times exceeded? NA [ ] Yes [ ] No [B]
9. Samples have: ____tape ____hazard labels B custody seals B appropriate sample labels
10. Matrix: ____A (FLT, Wipe, Solid, Soil) B I (Water) ____S (Air, Niosh 7400) ____T (Biological, Ni-63)
11. Samples:
    B are in good condition ____are leaking ____are broken
    ____have air bubbles (Only for samples requiring no head space) ____Other ____
12. Sample pH appropriate for analysis requested Yes [B] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [B]
14. Description of anomalies (include sample numbers): NA [B]
15. Sample Location, Sample Collector Listed on COC? * Yes [B] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [B] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: [signature] Date: 3-6-18

Client Notification needed? Yes [ ] No [B] Date: ____
By: ____
Person contacted: ____

[B] No action necessary; process as is

Project Manager [signature] Date 3/9/18

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I18-007-007 Page 1 of 1

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ 304121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A KS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HDP1	N	W	3-7-18	0955	1x500-mL P	TC99_ETVDSK_LSC: COMMON NANZQ	6 Months	HCl to pH <2

J8C080403
W08026

Page 16 of 68

04/06/2018

Relinquished By	Received By
Larry Rosane /CHPRC — Print First and Last Name; Larry Rosane — Signature; MAR 07 2018 1250 — Date/Time	Troy Bacon CHPRC — Print First and Last Name; Troy L. Bacon — Signature; MAR 07 2018 1250 — Date/Time
Troy Bacon CHPRC — Print First and Last Name; Troy L. Bacon — Signature; MAR 07 2018 1435 — Date/Time	Tina R Holmstad — Print First and Last Name; [signature] — Signature; 3/7/18 14:35 — Date/Time
Relinquished By: — Print First and Last Name / Signature / Date/Time	Received By: — Print First and Last Name / Signature / Date/Time
Relinquished By: — Print First and Last Name / Signature / Date/Time	Received By: — Print First and Last Name / Signature / Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I18-007-010

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ 304121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A ICS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HDP8	N	W	3-7-18	0730	1x1-L G/P	903.1_RA226_LUC: COMMON	6 Months	HNO3 to pH <2
B3HDP8	N	W	↓	↓	1x1-L G/P	RAISO_SEP_GPC: COMMON	6 Months	HNO3 to pH <2
B3HDP8	N	W	3-7-18	0730	1x500-mL P	TC99_ETVDSK_LSC: COMMON NANZR	6 Months	HCl to pH <2

Page 17 of 68

J8C080403
W080260

04/06/2018

Relinquished By: Larry Rosane /CHPRC — Larry Rosane — MAR 07 2018 0845 (Print First and Last Name / Signature / Date/Time)		Received By: Frank Hall /CHPRC — MAR 07 2018 0845 (Print First and Last Name / Signature / Date/Time)	
Relinquished By: Frank Hall /CHPRC — MAR 07 2018 1320 (Print First and Last Name / Signature / Date/Time)		Received By: Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1320 (Print First and Last Name / Signature / Date/Time)	
Relinquished By: Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)		Received By: Troy R Holmart — 3/7/18 14:35 (Print First and Last Name / Signature / Date/Time)	
Relinquished By: (Print First and Last Name / Signature / Date/Time)		Received By: (Print First and Last Name / Signature / Date/Time)	

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I18-007-009 Page 1 of 1

Collector:	Larry Rosane CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ 304121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A KS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HDP4	N	W	3-7-18	1047	1x1-L G/P	903.1_RA226_LUC: COMMON	6 Months	HNO3 to pH <2
B3HDP4	N	W	3-7-18	1047	1x1-L G/P	RAISO_SEP_GPC: COMMON NAN2T	6 Months	HNO3 to pH <2

18C080403
W08026

Page 18 of 68

04/06/2018

Relinquished By: Larry Rosane CHPRC — Larry Rosane — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)	Received By: Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)	Matrix *
Relinquished By: Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	Received By: B.Jorgenson, TARL — B Jorgenson — 3-7-18 1435 (Print First and Last Name / Signature / Date/Time)	S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air; DS = Drum Solids; DL = Drum Liquid; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)	
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)	

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

REV.0

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I18-007-011

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ 384121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A KS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HDP9	N	W	3-7-18	0836	1x1-L G/P	903.1_RA226_LUC: COMMON	6 Months	HNO3 to pH <2
B3HDP9	N	W	↓	↓	1x1-L G/P	RAISO_SEP_GPC: COMMON	6 Months	HNO3 to pH <2
B3HDP9	N	W	3-7-18	0836	1x500-mL P	TC99_ETVDSK_LSC: COMMON NAN2V	6 Months	HCl to pH <2

BC080403
1308026

Page 19 of 68

04/06/2018

Relinquished By: Larry Rosane /CHPRC — Larry Rosane — MAR 07 2018 0845 (Print First and Last Name / Signature / Date/Time)	Received By: Frank Hoff /CHPRC — MAR 07 2018 0845 (Print First and Last Name / Signature / Date/Time)	Matrix *	
Relinquished By: Frank Hoff /CHPRC — MAR 07 2018 1320 (Print First and Last Name / Signature / Date/Time)	Received By: Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1320 (Print First and Last Name / Signature / Date/Time)	S = Soil; SE = Sediment; SO = Solid; SL = Sludge; W = Water; O = Oil; A = Air	DS = Drum Solids; DL = Drum Liquid; T = Tissue; WI = Wipe; L = Liquid; V = Vegetation; X = Other
Relinquished By: Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	Received By: B.Jorgenson, TARL — B Jorgenson — 3-7-18 1435 (Print First and Last Name / Signature / Date/Time)		
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)		

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

REV.0

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I18-007-015 Page 1 of 1

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ 304121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A KS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HDR5	N	W	3-7-18	1149	1x500-mL G/P	C14_LSC: COMMON NANZW	6 Months	None

J8C080403
W08026

Page 20 of 68

04/06/2018

Relinquished By	Received By
Larry Rosane /CHPRC — Larry Rosane — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	B.Jorgenson, TARL — B Jorgenson — 3-7-18/1435 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I18-007-008 Page 1 of 1

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ 304121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A KS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HDP0	N	W	3-7-18	0955	1x500-mL G/P	C14_LSC: COMMON NANZX	6 Months	None

J8C080403
W08026

Page 21 of 68

04/06/2018

Relinquished By	Received By
Larry Rosane /CHPRC — Larry Rosane — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	B.Jorgenson, TARL — B Jorgenson — 3-7-18 1435 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I18-007-013 Page 1 of 1

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ 304121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A ICS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HDR4	N	W	3-7-18	1149	1x500-mL G/P	C14_LSC: COMMON NANZO	6 Months	None

JBC080403
W08026

Page 22 of 68

04/06/2018

Relinquished By:	Received By:
Larry Rosane /CHPRC — Larry Rosane — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	B.Jorgenson, TARL — B Jorgenson — 3-7-18/1435 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I18-007-023 Page 1 of 1

Collector:	Larry Rossano /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~200071~~ 304121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A CS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HLT3	N	W	3-7-18	0836	1x500-mL G/P	C14_LSC: COMMON NANZI	6 Months	None

J8C080403
W08026

Page 23 of 68

04/06/2018

Relinquished By:	Received By:
Larry Rossano /CHPRC — Larry Rossano — MAR 07 2018 0845 (Print First and Last Name / Signature / Date/Time)	Frank Hall /CHPRC — MAR 07 2018 0845 (Print First and Last Name / Signature / Date/Time)
Frank Hall /CHPRC — MAR 07 2018 1320 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1320 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	B.Jorgenson, TARL — B Jorgenson — 3-7-18 / 1435 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

REV.0

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # I18-007-027 Page 1 of 1

Collector:	Larry Rosano /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-007	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ 364121
Project Title:	ERDF, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A KS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HLT7	N	W	3-7-18	0730	1x500-mL G/P	C14_LSC: COMMON NAN29	6 Months	None

J8C080403
W08026

Page 24 of 68

04/06/2018

Relinquished By:	Received By:
Larry Rosano /CHPRC — Larry Rosano — MAR 07 2018 0845 (Print First and Last Name / Signature / Date/Time)	Frank Hall /CHPRC — MAR 07 2018 0845 (Print First and Last Name / Signature / Date/Time)
Frank Hall /CHPRC — MAR 07 2018 1320 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1320 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	B.Jorgenson, TARL — B Jorgenson — 3-7-18 1435 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

REV.0

Printed On 1/16/2018 FSR ID = FSR57265 A-6004-842 (REV 3)

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/06/2018

Sample Check-in List

REV.0

Date/Time Received: 3-7-18 / 1435

Container GM Screen Result: (Airlock) 0 cpm Initials [BJ]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [BJ]
Container Alpha Screen Result: (Airlock) 0 cpm Initials [BJ]
Sample Alpha Screen Result (Sample Receiving) 0 cpm Initials [BJ]

Client: PGLW SDG #: W080Z6 SAF #: 118-007 NA [ ]

Lot Number: J8C080403

Chain of Custody # 118-007-007; 010; 009; 011; 015; 008; 013; 027; 023

Shipping Container ID or Air Bill Number : _____ NA [BJ]

Samples received inside shipping container/cooler/box Yes [ ] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [BJ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [BJ]
3. Cooler temperature: 4.2 °C ICE NA [ ]
4. Vermiculite/packing materials is NA [BJ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [BJ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 9
7. Containers received: 8x500mLP; 1x1LP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [BJ]
9. Samples have: ____ tape [BJ] hazard labels [BJ] custody seals [BJ] appropriate sample labels
10. Matrix: ____ A (FLT, Wipe, Solid, Soil) [BJ] I (Water) ____ S (Air, Niosh 7400) ____ T (Biological, Ni-63)
11. Samples:
    [BJ] are in good condition ____ are leaking ____ are broken
    ____ have air bubbles (Only for samples requiring no head space) ____ Other ____
12. Sample pH appropriate for analysis requested Yes [BJ] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [BJ]
14. Description of anomalies (include sample numbers): NA [BJ] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [BJ] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [BJ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: BJorgenson Date: 3-7-18

Client Notification needed? Yes [ ] No [BJ] Date: _____
By: _____
Person contacted: _____

[BJ] No action necessary; process as is

Project Manager Sam Cupp Date 3/9/18

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S18-003-374

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	S18-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	CERCLA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/50	**Ice Chest No.:**	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HHY3	N	W	3-7-18	0730	1x250-mL P	906.0_TRITIUM_LSC: COMMON NANZZ	6 Months	None

J8C080404
W08026

Page 26 of 68

04/06/2018

Relinquished By	Received By
Larry Rosane /CHPRC — Print First and Last Name; Larry Rosane — Signature; MAR 07 2018 0845 — Date/Time	Frank Hall /CHPRC — Print First and Last Name; Signature; MAR 07 2018 0845 — Date/Time
Frank Hall /CHPRC — Print First and Last Name; Signature; MAR 07 2018 1320 — Date/Time	Troy Bacon CHPRC — Print First and Last Name; Troy L. Bacon — Signature; MAR 07 2018 1320 — Date/Time
Troy Bacon CHPRC — Print First and Last Name; Troy L. Bacon — Signature; MAR 07 2018 1435 — Date/Time	Tim R Holm — Print First and Last Name; Signature; 3/7/18 14:35 — Date/Time
Relinquished By: — Print First and Last Name; Signature; Date/Time	Received By: — Print First and Last Name; Signature; Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S18-003-466

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650 300071
SAF No.:	S18-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	~~300071~~ ~~304121~~ KS 3/6/18
Project Title:	CERCLA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A KS 3/6/18
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HLR5	N	W	3-7-18	0955	1x250-mL P	906.0_TRITIUM_LSC: COMMON NAN23	6 Months	None

J8C080404
W08026

04/06/2018

Relinquished By:	Received By:
Larry Rosane /CHPRC — Larry Rosane — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	Tina R Holm TARL — 3/7/18 14:35 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # S18-003-375

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	S18-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	CERCLA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK

** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS

N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HHY4	N	W	3-7-18	0836	1x250-mL P	906.0_TRITIUM_LSC: COMMON NAN24	6 Months	None

J8C080404

W08026

04/06/2018

Relinquished By: Larry Rosane /CHPRC — Print First and Last Name	Larry Rosane — Signature	MAR 07 2018 0845 — Date/Time	Received By: Frank Hall /CHPRC — Print First and Last Name / Signature / MAR 07 2018 0845 — Date/Time
Relinquished By: Frank Hall /CHPRC — Print First and Last Name	Signature	MAR 07 2018 1320 — Date/Time	Received By: Troy Bacon CHPRC — Print First and Last Name / Troy L. Bacon / Signature / MAR 07 2018 1320 — Date/Time
Relinquished By: Troy Bacon CHPRC — Print First and Last Name	Troy L. Bacon — Signature	MAR 07 2018 1435 — Date/Time	Received By: B.Jorgenson, TARL — Print First and Last Name / B Jorgenson — Signature / 3-7-18/1435 — Date/Time
Relinquished By: — Print First and Last Name	Signature	Date/Time	Received By: — Print First and Last Name / Signature / Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

Printed On 1/16/2018 FSR ID = FSR57263 A-6004-842 (REV 3)

REV.0

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S18-003-373 Page 1 of 1

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	S18-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	CERCLA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HHX8	N	W	3-7-18	1047	1x4-L G/P	I129LL_SEP_LEPS_GS_LL: COMMON NAN 25	6 Months	None

J8C080404
LW08026

Page 29 of 68

04/06/2018

Relinquished By:	Received By:
Larry Rosane /CHPRC — Larry Rosane — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	TMR Holmtard — 3/7/18 14:35 (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)
Relinquished By: (Print First and Last Name / Signature / Date/Time)	Received By: (Print First and Last Name / Signature / Date/Time)

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

REV.0

Printed On 1/31/2018 FSR ID = FSR57458 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S18-003-377 Page 1 of 1

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	S18-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	CERCLA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HHY9	N	W	3-7-18	1149	1x4-L G/P	I129LL_SEP_LEPS_GS_LL: COMMON NAN26	6 Months	None

J8C080404

LW08026

Page 30 of 68

04/06/2018

Relinquished By	Received By
Larry Rosane /CHPRC — Print First and Last Name / Signature / MAR 07 2018 1250 Date/Time	Troy Bacon CHPRC — Troy L. Bacon / MAR 07 2018 1250
Relinquished By: Troy Bacon CHPRC — Troy L. Bacon / MAR 07 2018 1435	Received By: Tina R Holm TABL — HL / 3/7/18/14:35
Relinquished By:	Received By:
Relinquished By:	Received By:

Matrix *
S = Soil, SE = Sediment, SO = Solid, SL = Sludge, W = Water, O = Oil, A = Air, DS = Drum Solids, DL = Drum Liquid, T = Tissue, WI = Wipe, L = Liquid, V = Vegetation, X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

REV.0

Printed On 1/16/2018 FSR ID = FSR57264 A-6004-842 (REV 3)

CH2MHill Plateau Remediation Company	CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST	C.O.C. # S18-003-376 Page 1 of 1

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	S18-003	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	CERCLA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/52	**Ice Chest No.:**	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	CERCLA	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HHY8	N	W	3-7-18	1149	1x4-L G/P	I129LL_SEP_LEPS_GS_LL: COMMON NAN27	6 Months	None

J8C080401
W08026

Page 31 of 68

04/06/2018

Relinquished By:	Received By:
Larry Rosane /CHPRC — Larry Rosane — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)	Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1250 (Print First and Last Name / Signature / Date/Time)
Troy Bacon CHPRC — Troy L. Bacon — MAR 07 2018 1435 (Print First and Last Name / Signature / Date/Time)	B.Jorgenson, TARL — B Jorgenson — 3-7-18/1435 (Print First and Last Name / Signature / Date/Time)
Relinquished By: — Print First and Last Name / Signature / Date/Time	Received By: — Print First and Last Name / Signature / Date/Time
Relinquished By: — Print First and Last Name / Signature / Date/Time	Received By: — Print First and Last Name / Signature / Date/Time

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

REV.0

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sample Check-in List

04/06/2018

REV.0

Date/Time Received: 3-7-18 / 1435

Container GM Screen Result: (Airlock) 0 cpm Initials [BJ]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [BJ]
Container Alpha Screen Result: (Airlock) 0 cpm Initials [BJ]
Sample Alpha Screen Result (Sample Receiving) 0 cpm Initials [BJ]

Client: PGLW SDG #: W08026 SAF #: 518-003 NA [ ]

Lot Number: J8C080404

Chain of Custody # 518-003-374; 373; 377; 466; 376; 375.

Shipping Container ID or Air Bill Number : _____ NA [BJ]

Samples received inside shipping container/cooler/box Yes [ ] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [BJ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [BJ]
3. Cooler temperature: 4.2 °C ICE NA [ ]
4. Vermiculite/packing materials is NA [BJ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [BJ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 6
7. Containers received: 3x 250 mLP; 3x 4LP
8. Sample holding times exceeded? NA [ ] Yes [ ] No [BJ]
9. Samples have: ____ tape [BJ] hazard labels [BJ] custody seals [BJ] appropriate sample labels
10. Matrix: ____ A (FLT, Wipe, Solid, Soil) [BJ] I (Water) ____ S (Air, Niosh 7400) ____ T (Biological, Ni-63)
11. Samples:
    [BJ] are in good condition ____ are leaking ____ are broken
    ____ have air bubbles (Only for samples requiring no head space) ____ Other _____
12. Sample pH appropriate for analysis requested Yes [BJ] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [BJ]
14. Description of anomalies (include sample numbers): NA [BJ] _____
15. Sample Location, Sample Collector Listed on COC? * Yes [BJ] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [BJ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: BJorgenson Date: 3-7-18

Client Notification needed? Yes [ ] No [SF] Date: _____
By: _____
Person contacted: _____

[SF] No action necessary; process as is

Project Manager [signature] Date 3/9/18

CH2MHill Plateau Remediation Company

CHAIN OF CUSTODY/SAMPLE ANALYSIS REQUEST

C.O.C. # I18-006-057

Collector:	Larry Rosane /CHPRC	**Contact/Requester:**	Karen Waters-Husted	**Telephone No.:**	509-376-4650
SAF No.:	I18-006	**Sampling Origin:**	Hanford Site	**Purchase Order/Charge Code:**	300071
Project Title:	AEA, MARCH 2018	**Logbook No.:**	HNF-N-506 98/53	**Ice Chest No.:**	N/A
Shipped To (Lab):	TestAmerica Incorporated, Rich	**Method of Shipment**	GOVERNMENT VEHICLE	**Bill of Lading/Air Bill No.:**	N/A
Protocol	SURV	**Priority:**	30 Days	**Offsite Property No.:**	N/A

POSSIBLE SAMPLE HAZARDS/REMARK
** ** Contains Radioactive Material at concentrations that are not regulated for transportation per 49 CFR / IATA Dangerous Goods Regulations but are not releasable per DOE Order 458.1

SPECIAL INSTRUCTIONS
N/A

Sample No.	Filter	*	Date	Time	No/Type Container	Sample Analysis	Holding Time	Preservative
B3HDH8	N	W	3-8-18	1426	1x250-mL P	906.0_TRITIUM_LSC: COMMON	6 Months	None
B3HDH8	N	W	3-8-18	1426	1x4-L G/P	I129LL_SEP_LEPS_GS_LL: COMMON NANSL	6 Months	None

J8C120402
W08026

Page 33 of 68

04/06/2018

Relinquished By	Print First and Last Name	Signature	Date/Time	Received By	Print First and Last Name	Signature	Date/Time
Larry Rosane /CHPRC	Larry Rosane	Larry Rosane	MAR 08 2018 1500	SSU-1			MAR 08 2018 1500
SSU-1			MAR 09 2018 0730	Zi Kruse Chpre			MAR 09 2018 0730
SSU-1 /CHPRC			MAR 09 2018 0915	Tina R Holm TARL			MAR 09 2018 0915

Matrix *

S = Soil	DS = Drum Solids
SE = Sediment	DL = Drum Liquid
SO = Solid	T = Tissue
SL = Sludge	WI = Wipe
W = Water	L = Liquid
O = Oil	V = Vegetation
A = Air	X = Other

FINAL SAMPLE DISPOSITION	Disposal Method (e.g., Return to customer, per lab procedure, used in process):	Disposed By:	Date/Time:

REV.0

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

04/06/2018

Sample Check-in List

REV.0

Date/Time Received: 3/9/18 09:15 Container GM Screen Result: (Airlock) 0 cpm Initials [BJ]
Sample GM Screen Result (Sample Receiving) 0 cpm Initials [BJ]
Container Alpha Screen Result: (Airlock) 0 cpm Initials [BJ]
Sample Alpha Screen Result (Sample Receiving) 0 cpm Initials [BJ]

Client: PGW SDG #: W080216 SAF #: 118-006 NA [ ]

Lot Number: J8C120402

Chain of Custody # 118-006-057

Shipping Container ID or Air Bill Number : _____ NA [BJ]

Samples received inside shipping container/cooler/box Yes [BJ] Continue with 1 through 4. Initial appropriate response.
No [ ] Go to 5, add comment to #16.

1. Custody Seals on shipping container intact? Yes [ ] No [ ] No Custody Seal [BJ]
2. Custody Seals dated and signed? Yes [ ] No [ ] No Custody Seal [BJ]
3. Cooler temperature: _____ °C NA [BJ]
4. Vermiculite/packing materials is NA [BJ] Wet [ ] Dry [ ]

Item 5 through 16 for samples. Initial appropriate response.

5. Chain of Custody record present? Yes [BJ] No [ ]
6. Number of samples received (Each sample may contain multiple bottles): 1
7. Containers received: 1x 250mL P; 1x 4L P
8. Sample holding times exceeded? NA [ ] Yes [ ] No [BJ]
9. Samples have: ____ tape ____ hazard labels [BJ] custody seals [BJ] appropriate sample labels
10. Matrix: ____ A (FLT, Wipe, Solid, Soil) [BJ] I (Water) ____ S (Air, Niosh 7400) ____ T (Biological, Ni-63)
11. Samples:
    [BJ] are in good condition ____ are leaking ____ are broken
    ____ have air bubbles (Only for samples requiring no head space) ____ Other _____
12. Sample pH appropriate for analysis requested Yes [BJ] No [ ] NA [ ]
    (If acidification is necessary go to pH area & document sample ID, initial pH, amount of HNO_3 added and pH after addition on table)
13. Were any anomalies identified in sample receipt? Yes [ ] No [BJ]
14. Description of anomalies (include sample numbers): NA [BJ]
15. Sample Location, Sample Collector Listed on COC? * Yes [BJ] No [ ]
    *For documentation only. No corrective action needed.
16. Additional Information: N/A

[ ] Client/Courier denied temperature check. [BJ] Client/Courier unpack cooler.

Sample Check-in List completed by Sample Custodian:
Signature: BJ Jogunson Date: 3-9-18

Client Notification needed? Yes [ ] No [ ] Date: _____
By: _____
Person contacted: _____

[ ] No action necessary; process as is

Project Manager [signature] Date 3-12-18

Sample Results Summary

Date: 06-Apr-18

TestAmerica Inc TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 72579 **SDG No:** W08026

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
8073038 I129LL_SEP_LEPS_GS									
B3H481									
	NANXK1AA	I129	-6.73E-02 +- 2.8E-01	U	pCi/L	87%	5.12E-01	1.00E+00	
B3HDH8									
	NAN5L1AC	I129	5.01E+00 +- 1.1E+00		pCi/L	85%	6.47E-01	1.00E+00	
B3HDH8 DUP									
	NAN5L1AE	I129	6.58E+00 +- 1.5E+00		pCi/L	93%	8.11E-01	1.00E+00	27.0
B3HHX8									
	NAN251AA	I129	6.55E+00 +- 1.2E+00		pCi/L	90%	7.71E-01	1.00E+00	
B3HHY8									
	NAN271AA	I129	1.69E+00 +- 6.9E-01		pCi/L	86%	7.04E-01	1.00E+00	
B3HHY9									
	NAN261AA	I129	1.49E+00 +- 5.2E-01		pCi/L	94%	4.60E-01	1.00E+00	
8073039 903.1_RA226_LUC									
B3HDP4									
	NAN2T1AA	Ra-226	4.96E-02 +- 1.5E-01	U	pCi/L	80%	2.85E-01	1.00E+00	
B3HDP8									
	NAN2R1AE	Ra-226	-5.86E-02 +- 1.7E-01	U	pCi/L	87%	3.38E-01	1.00E+00	
B3HDP8 DUP									
	NAN2R1AG	Ra-226	1.23E-01 +- 1.6E-01	U	pCi/L	83%	2.59E-01	1.00E+00	564.1
B3HDP9									
	NAN2V1AD	Ra-226	-1.49E-01 +- 1.3E-01	U	pCi/L	87%	3.14E-01	1.00E+00	
8073040 RAISO_SEP_GPC									
B3HDP4									
	NAN2T1AC	Ra-228	4.04E-01 +- 3.7E-01	U	pCi/L	81%	6.22E-01	1.00E+00	
B3HDP8									
	NAN2R1AF	Ra-228	4.34E-01 +- 3.5E-01	U	pCi/L	84%	5.62E-01	1.00E+00	
B3HDP8 DUP									
	NAN2R1AH	Ra-228	-3.06E-01 +- 3.7E-01	U	pCi/L	82%	6.94E-01	1.00E+00	1152.3
B3HDP9									
	NAN2V1AE	Ra-228	2.65E-01 +- 2.9E-01	U	pCi/L	88%	5.00E-01	1.00E+00	
8081012 9310_ALPHABETA_GPC									
B3HJD2									
	NANXJ2AA	Alpha	-2.26E-01 +- 9.0E-01	U	pCi/L	100%	1.76E+00	3.00E+00	
B3HJD3									
	NANXH2AA	Alpha	7.34E-01 +- 1.3E+00	U	pCi/L	100%	2.17E+00	3.00E+00	
B3HJD3 DUP									
	NANXH1AD	Alpha	1.51E+00 +- 1.5E+00	U	pCi/L	100%	2.23E+00	3.00E+00	69.0
8073036 C14_LSC									
B3HDP0									

RPD - Relative Percent Difference.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

Sample Results Summary

Date: 06-Apr-18

TestAmerica Inc TARL

Ordered by Method, Batch No., Client Sample ID.

Report No. : 72579 **SDG No:** W08026

Batch	Client Id Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	MDL	CRDL	RPD
8073036 C14_LSC									
B3HDP0									
	NAN2X1AA	C-14	1.82E+01 +- 9.7E+00	U	pCi/L	100%	1.83E+01	5.00E+01	
B3HDR4									
	NAN201AA	C-14	1.00E+01 +- 9.4E+00	U	pCi/L	100%	1.83E+01	5.00E+01	
B3HDR5									
	NAN2W1AA	C-14	6.44E-01 +- 9.1E+00	U	pCi/L	100%	1.83E+01	5.00E+01	
B3HDR5 DUP									
	NAN2W1AC	C-14	4.64E+00 +- 9.2E+00	U	pCi/L	100%	1.83E+01	5.00E+01	151.2
B3HLT3									
	NAN211AA	C-14	1.04E+01 +- 9.4E+00	U	pCi/L	100%	1.84E+01	5.00E+01	
B3HLT7									
	NAN291AA	C-14	5.41E-01 +- 9.0E+00	U	pCi/L	100%	1.82E+01	5.00E+01	
8073037 906.0_H3_LSC									
B3HDH8									
	NAN5L1AA	H-3	7.38E+03 +- 5.0E+02	N	pCi/L	100%	4.31E+02	7.00E+02	
B3HDH8 DUP									
	NAN5L1AD	H-3	7.80E+03 +- 5.1E+02	N	pCi/L	100%	4.34E+02	7.00E+02	5.5
B3HHY3									
	NAN221AA	H-3	1.60E+03 +- 2.8E+02	N	pCi/L	100%	4.39E+02	7.00E+02	
B3HHY4									
	NAN241AA	H-3	4.54E+04 +- 1.9E+03	N	pCi/L	100%	4.34E+02	7.00E+02	
B3HLR5									
	NAN231AA	H-3	5.60E+04 +- 2.3E+03	N	pCi/L	100%	4.31E+02	7.00E+02	
8073041 TC99_ETVDSK_LSC									
B3H481									
	NANXK1AC	Tc-99	7.65E+01 +- 8.1E+00		pCi/L	100%	1.17E+01	5.00E+01	
B3HDP8									
	NAN2R1AD	Tc-99	-4.69E-01 +- 5.4E+00	U	pCi/L	100%	1.16E+01	5.00E+01	
B3HDP9									
	NAN2V1AC	Tc-99	2.21E+01 +- 6.2E+00		pCi/L	100%	1.15E+01	5.00E+01	
8081010 TC99_ETVDSK_LSC									
B3H302									
	NANXL2AA	TC-99	1.00E+03 +- 3.3E+01		pCi/L	100%	1.12E+01	5.00E+01	
B3H302 DUP									
	NANXL2AC	TC-99	9.67E+02 +- 3.3E+01		pCi/L	100%	1.13E+01	5.00E+01	3.5
B3HDP1									
	NAN2Q2AA	TC-99	4.59E+01 +- 7.1E+00		pCi/L	100%	1.17E+01	5.00E+01	

No. of Results: 34

RPD - Relative Percent Difference.

N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

QC Results Summary

TestAmerica Inc TARL

Ordered by Method, Batch No, QC Type,.

Date: 06-Apr-18

Report No. : 72579 **SDG No.:** W08026

Batch Work Order	Parameter	Result +- CSU (2 s)	Qual	Units	Tracer Yield	LCS Recovery	Bias	MDL
I129LL_SEP_LEPS_GS								
8073038 BLANK QC,								
NAN961AA	I129	3.04E-02 +- 2.6E-01	U	pCi/L	89%			5.04E-01
8073038 LCS,								
NAN961AC	I129	2.32E+01 +- 3.1E+00		pCi/L	85%	121%	0.2	9.08E-01
903.1_RA226_LUC								
8073039 BLANK QC,								
NAN971AA	Ra-226	8.47E-02 +- 1.7E-01	U	pCi/L	77%			3.00E-01
8073039 LCS,								
NAN971AC	Ra-226	1.01E+01 +- 2.2E+00		pCi/L	86%	102%	0.0	3.87E-01
RAISO_SEP_GPC								
8073040 BLANK QC,								
NAN981AA	Ra-228	1.49E-01 +- 3.1E-01	U	pCi/L	83%			5.46E-01
8073040 LCS,								
NAN981AC	Ra-228	7.91E+00 +- 9.7E-01		pCi/L	87%	80%	-0.2	5.17E-01
9310_ALPHABETA_GPC								
8081012 BLANK QC,								
NAPLH1AA	Alpha	2.72E-01 +- 3.4E-01	U	pCi/L	100%			5.62E-01
8081012 LCS,								
NAPLH1AC	Alpha	2.21E+01 +- 5.7E+00		pCi/L	100%	98%	0.0	5.65E-01
C14_LSC								
8073036 MATRIX SPIKE, B3HDP0								
NAN2X1AC	C-14	4.70E+02 +- 3.4E+01		pCi/L	100%	98%	0.0	1.80E+01
8073036 BLANK QC,								
NAN941AA	C-14	-3.29E+00 +- 8.9E+00	U	pCi/L	100%			1.81E+01
8073036 LCS,								
NAN941AC	C-14	4.78E+02 +- 3.2E+01		pCi/L	100%	100%	0.0	1.82E+01
906.0_H3_LSC								
8073037 MATRIX SPIKE, B3HHY3								
NAN221AC	H-3	4.51E+02 +- 4.4E+02	U N	pCi/L	100%	28%	-0.7	5.06E+02
8073037 BLANK QC,								
NAN951AA	H-3	2.13E+02 +- 2.3E+02	U N	pCi/L	100%			4.33E+02
8073037 LCS,								
NAN951AC	H-3	2.66E+03 +- 3.2E+02	N	pCi/L	100%	96%	0.0	4.33E+02
TC99_ETVDSK_LSC								
8073041 BLANK QC,								
NAN991AA	Tc-99	4.93E+00 +- 5.6E+00	U	pCi/L	100%			1.16E+01
8073041 LCS,								
NAN991AC	Tc-99	9.47E+01 +- 8.7E+00		pCi/L	100%	88%	-0.1	1.17E+01
TC99_ETVDSK_LSC								
8081010 MATRIX SPIKE, B3HDP1								
NAN2Q2AC	TC-99	5.56E+02 +- 2.4E+01		pCi/L	100%	103%	0.0	1.13E+01

No. of Results: 17

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/5/2018 11:45:00 AM
Lot-Sample No.:	**J8C060404-1**	**Report No. :**	72579	**Received Date:**	3/6/2018 2:25:00 PM
Client Sample ID:	**B3H302**	**COC No. :**	I18-005-031	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8081010	TC99_ETVDSK_LSC			**Work Order:**	NANXL2AA		**Report DB ID:**	9NANXL20				
TC-99	**1.00E+03**		2.1E+01	3.3E+01	1.12E+01	pCi/L	100%	*(89.5)*	3/22/18 11:19 p		0.12655	LSC10
						5.29E+00	5.00E+01	*(59.9)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/6/2018 10:11:00 AM
Lot-Sample No.:	**J8C060403-1**	**Report No. :**	72579	**Received Date:**	3/6/2018 2:25:00 PM
Client Sample ID:	**B3H481**	**COC No. :**	S18-002-451	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073038	I129LL_SEP_LEPS_GS			**Work Order:** NANXK1AA			**Report DB ID:** 9NANXK10					
I129	**-6.73E-02**	U	2.8E-01	2.8E-01	5.12E-01	pCi/L	87%	*-0.13*	3/29/18 12:27 p		2.00313	LEP5$1
							1.00E+00	*-0.47*			L	
Batch: 8073041	TC99_ETVDSK_LSC			**Work Order:** NANXK1AC			**Report DB ID:** 9NANXK10					
Tc-99	**7.65E+01**		7.5E+00	8.1E+00	1.17E+01	pCi/L	100%	*(6.6)*	3/20/18 02:47 p		0.12508	LSC9
						5.52E+00	5.00E+01	*(18.8)*			L	

No. of Results: 2 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/8/2018 2:26:00 PM
Lot-Sample No.:	**J8C120402-1**	**Report No. :**	72579	**Received Date:**	3/9/2018 9:15:00 AM
Client Sample ID:	**B3HDH8**	**COC No. :**	I18-006-057	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073037	906.0_H3_LSC			**Work Order:**	NAN5L1AA		**Report DB ID:**	9NAN5L10				
H-3	**7.38E+03**	N	3.5E+02	5.0E+02	4.31E+02	pCi/L	100%	*(17.1)*	4/2/18 09:16 p		0.00501	LSC4
						2.06E+02	7.00E+02	*(29.6)*			L	
Batch: 8073038	I129LL_SEP_LEPS_GS			**Work Order:**	NAN5L1AC		**Report DB ID:**	9NAN5L10				
I129	**5.01E+00**		1.1E+00	1.1E+00	6.47E-01	pCi/L	85%	*(7.8)*	3/29/18 03:52 p		2.00179	LEP5$1
							1.00E+00	*(8.8)*			L	

No. of Results: 2 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 9:55:00 AM
Lot-Sample No.:	**J8C080403-6**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDP0**	**COC No. :**	I18-007-008	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073036	C14_LSC			**Work Order:**	NAN2X1AA		**Report DB ID:**	9NAN2X10				
C-14	**1.82E+01**	U	8.2E+00	9.7E+00	1.83E+01	pCi/L	100%	*1.*	3/30/18 03:29 a		0.075	LSC4
						8.80E+00	5.00E+01	*(3.8)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

TestAmerica Inc

rptSTLRchSample V5.8.5 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 9:55:00 AM
Lot-Sample No.:	**J8C080403-1**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDP1**	**COC No. :**	I18-007-007	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8081010	TC99_ETVDSK_LSC			**Work Order:**	NAN2Q2AA		**Report DB ID:**	9NAN2Q20				
TC-99	**4.59E+01**		6.5E+00	7.1E+00	1.17E+01	pCi/L	100%	*(3.9)*	3/23/18 12:48 a		0.12552	LSC10
						5.55E+00	5.00E+01	*(12.9)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 10:47:00 AM
Lot-Sample No.:	**J8C080403-3**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDP4**	**COC No. :**	I18-007-009	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073039	903.1_RA226_LUC			**Work Order:**	NAN2T1AA		**Report DB ID:**	9NAN2T10				
Ra-226	**4.96E-02**	U	1.5E-01	1.5E-01	2.85E-01	pCi/L	80%	*0.17*	4/3/18 03:02 p		0.99284	ASC3MA
						1.18E-01	1.00E+00	*0.64*			L	
Batch: 8073040	RAISO_SEP_GPC			**Work Order:**	NAN2T1AC		**Report DB ID:**	9NAN2T10				
Ra-228	**4.04E-01**	U	3.4E-01	3.7E-01	6.22E-01	pCi/L	81%	*0.65*	3/28/18 02:44 p		0.99284	GPC30
						2.82E-01	1.00E+00	*(2.2)*			L	

No. of Results: 2 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 7:30:00 AM
Lot-Sample No.:	**J8C080403-2**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDP8**	**COC No. :**	I18-007-010	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073039	903.1_RA226_LUC			**Work Order:**	NAN2R1AE		**Report DB ID:**	9NAN2R10				
Ra-226	**-5.86E-02**	U	1.7E-01	1.7E-01	3.38E-01	pCi/L	87%	*-0.17*	4/3/18 03:03 p		1.00681	ASC1HB
						1.46E-01	1.00E+00	*-0.7*			L	
Batch: 8073040	RAISO_SEP_GPC			**Work Order:**	NAN2R1AF		**Report DB ID:**	9NAN2R10				
Ra-228	**4.34E-01**	U	3.5E-01	3.5E-01	5.62E-01	pCi/L	84%	*0.77*	3/28/18 02:44 p		1.00681	GPC30
						2.55E-01	1.00E+00	*(2.5)*			L	
Batch: 8073041	TC99_ETVDSK_LSC			**Work Order:**	NAN2R1AD		**Report DB ID:**	9NAN2R10				
Tc-99	**-4.69E-01**	U	4.7E+00	5.4E+00	1.16E+01	pCi/L	100%	*-0.04*	3/20/18 06:20 p		0.12535	LSC9
						5.47E+00	5.00E+01	*-0.18*			L	

No. of Results: 3 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 8:36:00 AM
Lot-Sample No.:	**J8C080403-4**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDP9**	**COC No. :**	I18-007-011	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073039	903.1_RA226_LUC			**Work Order:**	NAN2V1AD		**Report DB ID:**	9NAN2V10				
Ra-226	**-1.49E-01**	U	1.3E-01	1.3E-01	3.14E-01	pCi/L	87%	*-0.47*	4/3/18 03:03 p		0.99916	ASC7UA
						1.33E-01	1.00E+00	*-(2.3)*			L	
Batch: 8073040	RAISO_SEP_GPC			**Work Order:**	NAN2V1AE		**Report DB ID:**	9NAN2V10				
Ra-228	**2.65E-01**	U	2.7E-01	2.9E-01	5.00E-01	pCi/L	88%	*0.53*	3/28/18 02:44 p		0.99916	GPC30
						2.24E-01	1.00E+00	*(1.8)*			L	
Batch: 8073041	TC99_ETVDSK_LSC			**Work Order:**	NAN2V1AC		**Report DB ID:**	9NAN2V10				
Tc-99	**2.21E+01**		5.6E+00	6.2E+00	1.15E+01	pCi/L	100%	*(1.9)*	3/20/18 07:02 p		0.12567	LSC9
						5.44E+00	5.00E+01	*(7.1)*			L	

No. of Results: 3 **Comments:**

04/06/2018

REV.0

TestAmerica Inc

rptSTLRchSample V5.8.5 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 11:49:00 AM
Lot-Sample No.:	**J8C080403-7**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDR4**	**COC No. :**	I18-007-013	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073036	C14_LSC			**Work Order:** NAN201AA			**Report DB ID:** 9NAN2010					
C-14	**1.00E+01**	U	7.9E+00	9.4E+00	1.83E+01	pCi/L	100%	*0.55*	3/30/18 05:41 a		0.075	LSC4
						8.79E+00	5.00E+01	*(2.1)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 11:49:00 AM
Lot-Sample No.:	**J8C080403-5**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDR5**	**COC No. :**	I18-007-015	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073036	C14_LSC			**Work Order:**	NAN2W1AA		**Report DB ID:**	9NAN2W10				
C-14	**6.44E-01**	U	7.6E+00	9.1E+00	1.83E+01	pCi/L	100%	*0.04*	3/30/18 01:17 a		0.075	LSC4
						8.78E+00	5.00E+01	*0.14*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 10:47:00 AM
Lot-Sample No.:	**J8C080404-4**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HHX8**	**COC No. :**	S18-003-373	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073038	I129LL_SEP_LEPS_GS			**Work Order:** NAN251AA			**Report DB ID:** 9NAN2510					
I129	**6.55E+00**		1.2E+00	1.2E+00	7.71E-01	pCi/L	90%	*(8.5)*	3/29/18 02:09 p		2.0027	LEP4$1
							1.00E+00	*(10.5)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

TestAmerica Inc

rptSTLRchSample V5.8.5 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 7:30:00 AM
Lot-Sample No.:	**J8C080404-1**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HHY3**	**COC No. :**	S18-003-374	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073037	906.0_H3_LSC			**Work Order:**	NAN221AA		**Report DB ID:**	9NAN2210				
H-3	**1.60E+03**	N	2.3E+02	2.8E+02	4.39E+02	pCi/L	100%	*(3.7)*	4/2/18 03:33 p		0.00502	LSC4
						2.10E+02	7.00E+02	*(11.4)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

TestAmerica Inc

rptSTLRchSample V5.8.5 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 8:36:00 AM
Lot-Sample No.:	**J8C080404-3**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HHY4**	**COC No. :**	S18-003-375	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073037	906.0_H3_LSC			**Work Order:** NAN241AA			**Report DB ID:** 9NAN2410					
H-3	**4.54E+04**	N	7.7E+02	1.9E+03	4.34E+02	pCi/L	100%	*(104.8)*	4/2/18 07:50 p		0.00503	LSC4
						2.08E+02	7.00E+02	*(47.5)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 11:49:00 AM
Lot-Sample No.:	**J8C080404-6**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HHY8**	**COC No. :**	S18-003-376	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073038	I129LL_SEP_LEPS_GS			**Work Order:** NAN271AA			**Report DB ID:** 9NAN2710					
I129	**1.69E+00**		6.9E-01	6.9E-01	7.04E-01	pCi/L	86%	*(2.4)*	3/29/18 03:51 p		2.00165	LEP4$1
							1.00E+00	*(4.9)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

TestAmerica Inc

rptSTLRchSample V5.8.5 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 11:49:00 AM
Lot-Sample No.:	**J8C080404-5**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HHY9**	**COC No. :**	S18-003-377	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073038	I129LL_SEP_LEPS_GS			**Work Order:** NAN261AA			**Report DB ID:** 9NAN2610					
I129	**1.49E+00**		5.2E-01	5.2E-01	4.60E-01	pCi/L	94%	*(3.2)*	3/29/18 02:10 p		2.00344	LEP5$1
							1.00E+00	*(5.8)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/6/2018 10:24:00 AM
Lot-Sample No.:	**J8C060402-2**	**Report No. :**	72579	**Received Date:**	3/6/2018 2:25:00 PM
Client Sample ID:	**B3HJD2**	**COC No. :**	W18-003-136	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8081012	9310_ALPHABETA_GPC			**Work Order:** NANXJ2AA			**Report DB ID:** 9NANXJ20					
Alpha	**-2.26E-01**	U	9.0E-01	9.0E-01	1.76E+00	pCi/L	100%	*-0.13*	3/27/18 01:56 p		0.17465	GPC24A
						7.67E-01	3.00E+00	*-0.5*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

TestAmerica Inc

rptSTLRchSample V5.8.5 A2002

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/6/2018 10:24:00 AM
Lot-Sample No.:	**J8C060402-1**	**Report No. :**	72579	**Received Date:**	3/6/2018 2:25:00 PM
Client Sample ID:	**B3HJD3**	**COC No. :**	W18-003-137	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8081012	9310_ALPHABETA_GPC			**Work Order:** NANXH2AA			**Report DB ID:** 9NANXH20					
Alpha	**7.34E-01**	U	1.3E+00	1.3E+00	2.17E+00	pCi/L	100%	*0.34*	3/27/18 01:56 p		0.11958	GPC23D
						9.26E-01	3.00E+00	*(1.2)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 9:55:00 AM
Lot-Sample No.:	**J8C080404-2**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HLR5**	**COC No. :**	S18-003-466	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073037	906.0_H3_LSC			**Work Order:**	NAN231AA		**Report DB ID:**	9NAN2310				
H-3	**5.60E+04**	N	8.5E+02	2.3E+03	4.31E+02	pCi/L	100%	*(130.)*	4/2/18 06:24 p		0.005	LSC4
						2.06E+02	7.00E+02	*(48.7)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 8:36:00 AM
Lot-Sample No.:	**J8C080403-8**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HLT3**	**COC No. :**	I18-007-023	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073036	C14_LSC			**Work Order:**	NAN211AA		**Report DB ID:**	9NAN2110				
C-14	**1.04E+01**	U	8.0E+00	9.4E+00	1.84E+01	pCi/L	100%	*0.57*	3/30/18 06:47 a		0.075	LSC4
						8.82E+00	5.00E+01	*(2.2)*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM I

SAMPLE RESULTS

Date: 06-Apr-18

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 7:30:00 AM
Lot-Sample No.:	**J8C080403-9**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HLT7**	**COC No. :**	I18-007-027	**Matrix:**	WATER

Ordered by Client Sample ID, Batch No.

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, Lc	Yield CRDL(RL)	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073036	C14_LSC			**Work Order:** NAN291AA			**Report DB ID:** 9NAN2910					
C-14	**5.41E-01**	U	7.6E+00	9.0E+00	1.82E+01	pCi/L	100%	*0.03*	3/30/18 07:53 a		0.075	LSC4
						8.73E+00	5.00E+01	*0.12*			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 06-Apr-18

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/5/2018 11:45:00 AM
Lot-Sample No.:	**J8C060404-1**	**Report No. :**	72579	**Received Date:**	3/6/2018 2:25:00 PM
Client Sample ID:	**B3H302 DUP**	**COC No. :**	I18-005-031	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8081010	TC99_ETVDSK_LSC			**Work Order:**	NANXL2AC	**Report DB ID:**	NANXL2CR		**Orig Sa DB ID:** 9NANXL20			
TC-99	9.67E+02		2.1E+01	3.3E+01	1.13E+01	pCi/L	100%	(85.6)	3/23/18 12:03 a		0.12519	LSC10
	1.00E+03		**RPD**	**3.5**		5.00E+01		(59.3)			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

FORM II

Date: 06-Apr-18

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/8/2018 2:26:00 PM
Lot-Sample No.:	**J8C120402-1**	**Report No. :**	72579	**Received Date:**	3/9/2018 9:15:00 AM
Client Sample ID:	**B3HDH8 DUP**	**COC No. :**	I18-006-057	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073037	906.0_H3_LSC			**Work Order:**	NAN5L1AD	**Report DB ID:**	NAN5L1DR		**Orig Sa DB ID:**	9NAN5L10		
H-3	7.80E+03	N	3.6E+02	5.1E+02	4.34E+02	pCi/L	100%	(18.)	4/2/18 10:42 p		0.00502	LSC4
	7.38E+03	N	**RPD**	**5.5**		7.00E+02		(30.3)			L	
Batch: 8073038	I129LL_SEP_LEPS_GS			**Work Order:**	NAN5L1AE	**Report DB ID:**	NAN5L1ER		**Orig Sa DB ID:**	9NAN5L10		
I129	6.58E+00		1.5E+00	1.5E+00	8.11E-01	pCi/L	93%	(8.1)	3/30/18 08:35 a		1.8357	LEP4$1
	5.01E+00		**RPD**	**27.0**		1.00E+00		(8.9)			L	

No. of Results: 2 **Comments:**

04/06/2018

REV.0

FORM II

Date: 06-Apr-18

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 7:30:00 AM
Lot-Sample No.:	**J8C080403-2**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDP8 DUP**	**COC No. :**	I18-007-010	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073039	903.1_RA226_LUC			**Work Order:**	NAN2R1AG	**Report DB ID:**	NAN2R1GR		**Orig Sa DB ID:**	9NAN2R10		
Ra-226	1.23E-01	U	1.6E-01	1.6E-01	2.59E-01	pCi/L	83%	0.47	4/3/18 03:03 p		1.00057	ASC2RC
	-5.86E-02	U	**RPD**	**564.1**		1.00E+00		(1.6)			L	
Batch: 8073040	RAISO_SEP_GPC			**Work Order:**	NAN2R1AH	**Report DB ID:**	NAN2R1HR		**Orig Sa DB ID:**	9NAN2R10		
Ra-228	-3.06E-01	U	3.7E-01	3.7E-01	6.94E-01	pCi/L	82%	-0.44	3/28/18 02:44 p		1.00057	GPC30
	4.34E-01	U	**RPD**	**1152.3**		1.00E+00		-(1.6)			L	

No. of Results: 2 **Comments:**

04/06/2018

REV.0

FORM II

Date: 06-Apr-18

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/7/2018 11:49:00 AM
Lot-Sample No.:	**J8C080403-5**	**Report No. :**	72579	**Received Date:**	3/7/2018 2:35:00 PM
Client Sample ID:	**B3HDR5 DUP**	**COC No. :**	I18-007-015	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073036 C14_LSC				**Work Order:** NAN2W1AC		**Report DB ID:** NAN2W1CR			**Orig Sa DB ID:** 9NAN2W10			
C-14	4.64E+00	U	7.8E+00	9.2E+00	1.83E+01	pCi/L	100%	0.25	3/30/18 02:23 a		0.075	LSC4
	6.44E-01	U	**RPD**	**151.2**		5.00E+01		(1.)			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

TestAmerica Inc

rptSTLRchDupV5.8.5 A2002

RPD - Relative Percent Difference.

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

Date: 06-Apr-18

DUPLICATE RESULTS

Lab Name:	**TestAmerica Inc**	**SDG:**	W08026	**Collection Date:**	3/6/2018 10:24:00 AM
Lot-Sample No.:	**J8C060402-1**	**Report No. :**	72579	**Received Date:**	3/6/2018 2:25:00 PM
Client Sample ID:	**B3HJD3 DUP**	**COC No. :**	W18-003-137	**Matrix:**	WATER

Parameter	Result, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDL, Action Lev	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8081012	9310_ALPHABETA_GPC			**Work Order:** NANXH1AD		**Report DB ID:** NANXH1DR			**Orig Sa DB ID:** 9NANXH20			
Alpha	1.51E+00	U	1.4E+00	1.5E+00	2.23E+00	pCi/L	100%	0.67	3/27/18 01:56 p		0.11971	GPC23C
	7.34E-01	U	**RPD**	**69.0**		3.00E+00		(2.1)			L	

No. of Results: 1 **Comments:**

04/06/2018

REV.0

RPD - Relative Percent Difference.

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

BLANK RESULTS

Date: 06-Apr-18

Lab Name: TestAmerica Inc

SDG: W08026

Matrix: WATER

Report No. : 72579

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector
Batch: 8073036	C14_LSC			**Work Order:**	NAN941AA		**Report DB ID:**	NAN941AB				
C-14	-3.29E+00	U	7.5E+00	8.9E+00	1.81E+01	pCi/L	100%	-0.18	3/30/18 08:59 a		0.075	LSC4
					8.69E+00	5.00E+01		-0.74			L	
Batch: 8073037	906.0_H3_LSC			**Work Order:**	NAN951AA		**Report DB ID:**	NAN951AB				
H-3	2.13E+02	U N	1.9E+02	2.3E+02	4.33E+02	pCi/L	100%	0.49	4/3/18 12:07 a		0.00502	LSC4
					2.07E+02	7.00E+02		(1.9)			L	
Batch: 8081012	9310_ALPHABETA_GPC			**Work Order:**	NAPLH1AA		**Report DB ID:**	NAPLH1AB				
Alpha	2.72E-01	U	3.4E-01	3.4E-01	5.62E-01	pCi/L	100%	0.48	3/27/18 01:56 p		0.20169	GPC24B
					2.37E-01	3.00E+00		(1.6)			L	
Batch: 8073038	I129LL_SEP_LEPS_GS			**Work Order:**	NAN961AA		**Report DB ID:**	NAN961AB				
I129	3.04E-02	U	2.6E-01	2.6E-01	5.04E-01	pCi/L	89%	0.06	3/30/18 08:35 a		2.00079	LEP5$1
						1.00E+00		0.23			L	
Batch: 8073039	903.1_RA226_LUC			**Work Order:**	NAN971AA		**Report DB ID:**	NAN971AB				
Ra-226	8.47E-02	U	1.7E-01	1.7E-01	3.00E-01	pCi/L	77%	0.28	4/3/18 03:04 p		1.0007	ASC8RE
					1.25E-01	1.00E+00		0.99			L	
Batch: 8073040	RAISO_SEP_GPC			**Work Order:**	NAN981AA		**Report DB ID:**	NAN981AB				
Ra-228	1.49E-01	U	2.9E-01	3.1E-01	5.46E-01	pCi/L	83%	0.27	3/28/18 02:44 p		1.0007	GPC31
					2.46E-01	1.00E+00		0.95			L	
Batch: 8073041	TC99_ETVDSK_LSC			**Work Order:**	NAN991AA		**Report DB ID:**	NAN991AB				
Tc-99	4.93E+00	U	5.0E+00	5.6E+00	1.16E+01	pCi/L	100%	0.43	3/20/18 07:45 p		0.12533	LSC9
					5.46E+00	5.00E+01		(1.8)			L	

04/06/2018

REV.0

MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.

U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

FORM II

BLANK RESULTS

Date: 06-Apr-18

Lab Name: TestAmerica Inc

SDG: W08026

Matrix: WATER

Report No. : 72579

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL, Lc	Rpt Unit, CRDL	Yield	Rst/MDL, Rst/TotUcert	Analysis, Prep Date	Total Sa Size	Aliquot Size	Primary Detector

No. of Results: 7 **Comments:**

04/06/2018

REV.0

TestAmerica Inc MDC|MDA,Lc - Detection, Decision Level based on instrument background or blank, adjusted by the sample Efficiency, Yield, and Volume.

rptSTLRchBlank
V5.8.5 A2002

FORM II

LCS RESULTS

Date: 06-Apr-18

Lab Name: TestAmerica Inc

SDG: W08026

Matrix: WATER

Report No. : 72579

Parameter	Result	Qual	Count Error (2 s)	CSU (2 s)	MDL	Report Unit	Yield	Expected	Expected Uncert	Recovery, Bias	Analysis, Prep Date	Aliquot Size	Primary Detector
Batch: 8073036	C14_LSC			**Work Order:**	NAN941AC		**Report DB ID:**	NAN941CS					
C-14	4.78E+02		1.7E+01	3.2E+01	1.82E+01	pCi/L	100%	4.80E+02	9.6E+00	100%	3/30/18 10:05 a	0.075	LSC4
							Rec Limits:	80	120	0.0		L	
Batch: 8073037	906.0_H3_LSC			**Work Order:**	NAN951AC		**Report DB ID:**	NAN951CS					
H-3	2.66E+03	N	2.5E+02	3.2E+02	4.33E+02	pCi/L	100%	2.75E+03	8.3E+01	96%	4/3/18 01:33 a	0.00502	LSC4
							Rec Limits:	80	120	0.0		L	
Batch: 8081012	9310_ALPHABETA_GPC			**Work Order:**	NAPLH1AC		**Report DB ID:**	NAPLH1CS					
Alpha	2.21E+01		1.6E+00	5.7E+00	5.65E-01	pCi/L	100%	2.26E+01	2.3E-01	98%	3/27/18 01:56 p	0.20037	GPC24C
							Rec Limits:	80	120	0.0		L	
Batch: 8073038	I129LL_SEP_LEPS_GS			**Work Order:**	NAN961AC		**Report DB ID:**	NAN961CS					
I129	2.32E+01		3.1E+00	3.1E+00	9.08E-01	pCi/L	85%	1.92E+01		121%	3/30/18 10:21 a	2.00006	LEP4$1
							Rec Limits:	80	120	0.2		L	
Batch: 8073039	903.1_RA226_LUC			**Work Order:**	NAN971AC		**Report DB ID:**	NAN971CS					
Ra-226	1.01E+01		8.2E-01	2.2E+00	3.87E-01	pCi/L	86%	9.95E+00	1.0E-01	102%	4/3/18 03:04 p	1.00026	ASCESD
							Rec Limits:	80	120	0.0		L	
Batch: 8073040	RAISO_SEP_GPC			**Work Order:**	NAN981AC		**Report DB ID:**	NAN981CS					
Ra-228	7.91E+00		5.9E-01	9.7E-01	5.17E-01	pCi/L	87%	9.83E+00	9.9E-02	80%	3/28/18 02:44 p	1.00026	GPC31
							Rec Limits:	80	120	-0.2		L	
Batch: 8073041	TC99_ETVDSK_LSC			**Work Order:**	NAN991AC		**Report DB ID:**	NAN991CS					
Tc-99	9.47E+01		8.0E+00	8.7E+00	1.17E+01	pCi/L	100%	1.08E+02	6.2E-01	88%	3/20/18 08:28 p	0.12544	LSC9
							Rec Limits:	80	120	-0.1		L	

No. of Results: 7 **Comments:**

04/06/2018

REV.0

TestAmerica Inc **Bias** - (Result/Expected)-1 as defined by ANSI N13.30.

rptSTLRchLcs **N Qual** - MS, MSD: Spike recovery exceeds upper or lower control limit.

V5.8.5 A2002

FORM II

MATRIX SPIKE RESULTS

Date: 06-Apr-18

Lab Name: TestAmerica Inc **SDG:** W08026

Lot-Sample No.: J8C080403-1, B3HDP1 **Report No. :** 72579 **Matrix:** WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDC|MDA	Rpt Unit	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 8081010	**Work Order:** NAN2Q2AC			**Report DB ID:** NAN2Q2CW			**Orig Sa DB ID:** 9NAN2Q20					
TC-99	5.56E+02		1.6E+01	2.4E+01	1.13E+01	pCi/L	100%	103.49%	5.38E+02	3/23/18 01:32 a	0.12589	TC99_ETVDSK_LSC
	4.59E+01								3.1E+00		L	LSC10

Number of Results: 1

Comments:

04/06/2018

REV.0

TestAmerica Inc
rptSTLRchMs
V5.8.5 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.

Bias - (Result/Expected)-1 as defined by ANSI N13.30.

FORM II

MATRIX SPIKE RESULTS

Date: 06-Apr-18

Lab Name: TestAmerica Inc **SDG:** W08026

Lot-Sample No.: J8C080403-6, B3HDP0 **Report No. :** 72579 **Matrix:** WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDC|MDA	Rpt Unit	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 8073036	**Work Order:** NAN2X1AC			**Report DB ID:** NAN2X1CW			**Orig Sa DB ID:** 9NAN2X10					
C-14	4.70E+02		1.7E+01	3.4E+01	1.80E+01	pCi/L	100%	97.91%	4.81E+02	3/30/18 04:35 a	0.075	C14_LSC
	1.82E+01								9.6E+00		L	LSC4

Number of Results: 1

Comments:

04/06/2018

REV.0

TestAmerica Inc
rptSTLRchMs
V5.8.5 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.

FORM II

MATRIX SPIKE RESULTS

Date: 06-Apr-18

Lab Name: TestAmerica Inc **SDG:** W08026

Lot-Sample No.: J8C080404-1, B3HHY3 **Report No. :** 72579 **Matrix:** WATER

Parameter	SpikeResult, Orig Rst	Qual	Count Error (2 s)	CSU (2 s)	MDC|MDA	Rpt Unit	Yield	Rec-overy	Expected, Uncert	Analysis, Prep Date	Aliquot Size	Analy Method, Primary Detector
Batch: 8073037	**Work Order:** NAN221AC			**Report DB ID:** NAN221CW			**Orig Sa DB ID:** 9NAN2210					
H-3	4.51E+02	U N	2.7E+02	4.4E+02	5.06E+02	pCi/L	100%	27.68%	1.63E+03	4/2/18 04:59 p	0.00429	906.0_H3_LSC
	1.60E+03								4.9E+01		L	LSC4

Number of Results: 1

Comments:

04/06/2018

REV.0

TestAmerica Inc

rptSTLRchMs
V5.8.5 A2002

RER - Replicate Error Ratio = (S-D)/[sqrt(sq(TPUs)+sq(TPUd))] as defined by ICPT BOA.
Bias - (Result/Expected)-1 as defined by ANSI N13.30.
N Qual - MS, MSD: Spike recovery exceeds upper or lower control limit.
U Qual - Analyzed for but not detected above limiting criteria, Mdc/Mda/Mdl, Total Uncert, RDL or not identified by gamma scan software.

W08026

SAMP NUM	WMU Code	WELL NAME	SITE TYPE	PARENT WMU	DESCRIPTION
B3HJD2	1324-N	199-N-77	TSD	1324-N	120-N-2 (1324-N Surface Impoundment) Liquid Waste Disposal Facilities
B3HJD3	1324-N	199-N-77	TSD	1324-N	120-N-2 (1324-N Surface Impoundment) Liquid Waste Disposal Facilities
B3HJD2	1324-NA	199-N-77	TSD	1324-NA	120-N-1 (1324-NA Percolation Pond)
B3HJD3	1324-NA	199-N-77	TSD	1324-NA	120-N-1 (1324-NA Percolation Pond)
B3H481	241TX	299-W10-27	WMU	SST	200 West Area Underground Waste Storage Tank Farm
B3H481	241TY	299-W10-27	WMU	SST	200 West Area Underground Waste Storage Tank Farm