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DOE/RL-2005-10
Revision 0

Application for Renewal of State Waste Discharge Permit ST 4500 for the 200 Area Effluent Treatment Facility

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

United States Department of Energy
P.O. Box 550
Richland, Washington 99352

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J. D. Marshal 1/12/2005
Release Approval Date

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DOE/RL-2005-10, Rev. 0
01/2005

WASHINGTON STATE DEPARTMENT OF ECOLOGY

APPLICATION FOR DISCHARGE INDUSTRIAL WASTEWATER TO GROUND WATER

This application is for a wastewater discharge permit as required by Chapter 90.48 RCW and Chapter 173-216 WAC. It is designed to provide the Department of Ecology with information on pollutants in the waste stream, materials which may enter the waste stream, the flow characteristics of the discharge, and the site characteristics at the point of discharge.

Information previously submitted to Ecology that applies to this application should be referenced in the appropriate section. Ecology may request additional information to clarify the conditions of this discharge.

SECTION A. GENERAL INFORMATION

1. Applicant Name: U.S. Department of Energy, Richland Operations Office

2. Facility Name: (if different from Applicant) Hanford Site

3. Applicant Address: P. O. Box 550, A7-50
Street

Richland, WA 99352
City/State Zip

4. Facility Address: 200 East Area – Hanford Site
Street

City/State Zip

5. Latitude/longitude of land application area (center):

46° 34' 21" N 119° 38' 0" W

FOR OFFICE USE ONLY **Check One** New/Renewal ☐ Modification ☐

Date Application Received _____ Application/Permit No. _____

Date Application Accepted _____ Date Fee Paid _____

6. Contact person:

R. D. Hildebrand		Environmental Scientist Central Plateau U. S. DOE/Richland Operations Office
Name		Title
(509) 373-9626	(509) 372-1926	R D Doug Hildebrand@rl.gov
Telephone Number	Fax Number	Email

7. Check One:

☒ **Permit Renewal** (including renewal of temporary permits)

Does this application request a greater amount of wastewater discharge, a greater amount of pollutant discharge, or a discharge of different pollutants than specified in the last permit application for this facility? ☐ YES ☒ NO

For permit renewals, the current permit is an attachment, by reference, to this application.

☐ **Permit Modification**

☐ **Existing Unpermitted Discharge**

☐ **Proposed Discharge**

Anticipated date of discharge:_____

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of a fine and/or imprisonment for knowing violations.

Signature*	Date	Title

K. A. Klein
Printed Name

*Applications must be signed as follows: Corporations, by a principal executive officer of at least the level of vice-president; partnership, by a general partner; sole proprietorship, by the proprietor. If these titles do not apply within your organization, the application is to be signed by the person who makes budget decisions for this facility.

To receive this document in an alternate format, contact Water Quality Program at (360) 407-6401 (Voice) or 711 or 1-800-833-6388 (TTY).

SECTION B. PRODUCT INFORMATION

Completion of Sections B.1 and B.2 was not required for the 1999 reapplication.

1. Briefly describe all manufacturing processes and products, and/or commercial activities, at this facility. Provide the applicable Standard Industrial Classification (SIC) Code(s) for each activity (see *Standard Industrial Classification Manual,* 1987 ed.).

   Description:

2. List raw materials and products used at this facility:

Type	RAW MATERIALS	Quantity

Type	PRODUCTS	Quantity

SECTION C. PLANT OPERATIONAL CHARACTERISTICS

1. For each process listed in B.1. that generates wastewater, list the process, assign the waste stream a name and an ID # and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process
Treatment of wastewater at the Effluent Treatment Facility (ETF)	ETF treated wastewater	1	B
ETF cooling tower blowdown discharged to SALDS (blowdown discharge combines with ETF treated wastewater downstream of verification tanks)	ETF cooling tower blowdown	2	C

2. On a separate sheet, *(label as attachment C.2)*, produce a schematic drawing showing production processes, water flow through the facility and wastewater treatment devices. The drawing should indicate the source of intake water and the operations contributing wastewater to the effluent. The treatment units should be labeled. Construct the water balance by showing average flows between intakes, operations, treatment units, and points of discharge to land. If a water balance cannot be determined *(e.g., for certain mining activities)*, provide a description of the nature and amount of any sources of water and any collection or treatment measures.

   Completion of Section C.2 was not required for the 1999 reapplication.

3. What is the maximum daily discharge flow? 670,000 gallons/day

   What is the maximum average monthly discharge flow (daily flows averaged over a month)? 250,000 gallons/day

4. Describe any planned wastewater treatment improvements or changes in wastewater disposal methods and the schedule for the improvements or changes. *(Use additional sheets, if necessary and label as attachment C4.)*

   Completion of Sections C.4 through C.8 was not required for the 1999 reapplication.

5. If production processes are subject to seasonal variations, provide the following information. List discharge for each wastestream in gallons per day (GPD). The combined value for each month should equal the estimated total monthly flow.

Waste Stream ID#	MONTHS											
	J	F	M	A	M	J	J	A	S	O	N	D
Estimated Total Monthly Flow (GPD)												

6. How many hours a day does this facility typically operate? _____

   How many days a week does this facility typically operate? _____

   How many weeks per year does this facility typically operate? _____

7. List all incidental materials, such as oil, paint, grease, solvents, and cleaners that are used or stored on site. (List only those with quantities greater than 10 gallons for liquids and 50 pounds for solids.) For solvents and solvent-based cleaners, include a copy of the material safety data sheet and estimate the quantity used. *(Use additional sheets, if necessary, and label as attachment C.7.)*

   Materials/Quantity Stored:

8. Some types of facilities are required to have spill or waste control plans. Does this facility have:

   a. A Spill Prevention, Control, and Countermeasure Plan (40 CFR 112)? ☐ YES ☐ NO
   b. An Emergency Response Plan (per WAC 173-303-350)? ☐ YES ☐ NO
   c. A runoff, spillage, or leak control plan (per WAC 173-216-110(f))? ☐ YES ☐ NO
   d. Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: _____ ☐ YES ☐ NO
   e. A Solid Waste Management Plan? ☐ YES ☐ NO

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Water source(s):

☐ Public System (Specify) _____

☒ Private Well ☒ Surface Water

Raw water used at ETF is received through the water supply system from the Columbia River and/or private wells.

a. Water Right Permit Number: Not applicable. The U.S. Government has a reserved water right to utilize water for purposes of supporting Hanford Site activities.

b. Legal Description of Surface Water Source:

SW ¼S, SW ¼E, Section 2, TWN 13N, R 25E

Legal Description of Private Well Source:

SW ¼S, SW ¼E, Section 2, TWN 12N, R 26E

2. Water use

a. Indicate total water use: Gallons per day (average) 46,300 gpd raw water*

Gallons per day (maximum) 64,000 gpd raw water*

b. Is water metered? ☐ YES ☒ NO

*Since raw water flow into ETF is not metered, volumes are estimates.

6. Are any other pesticides, herbicides or fungicides used at this facility? ☒ YES ☐ NO

If yes, specify the material and quantity used: Herbicides and pesticides are applied across the Hanford Site, including around the ETF and SALDS, by licensed applicators in accordance with manufacturers' instructions. This use does not present a direct pathway into the wastewater treatment system. Specific information on materials used is available for review at the facility.

7. Are there other pollutants that you know of or believe to be present? ☐ YES ☒ NO
If yes, specify the pollutants and their concentration if known (attach laboratory analyses if available). ☐ DON'T KNOW

	Parameter	Concentrations Measured			Number of Analyses	Analytical Method Std. Methods 19th Edition	Detection Limit
		Minimum	Maximum	Average			
	4-Nitrophenol	<[1.4]	<[1.6]	<[1.5]	14	SW-846 8270	1.4 µg/L
	Acenaphthene	<[2.5]	<[2.8]	<[2.6]	14	SW-846 8270	2.5 µg/L
	Acetone	<[1]	68	11.4	14	SW-846 8260	1 µg/L
X	Acetophenone	<[2.7]	<[3]	<[2.8]	14	SW-846 8270	2.7 µg/L
	Aluminum	<[27]	<[50]	<[47]	14	SW-846 6010	50 µg/L
	Americium-241	<[0.09]	0.2	0.03	14	Laboratory Specific	0.093 pCi/L
X	Ammonia (as N)	<[4]	9.4	1.0	14	EPA-600 300.7	4 µg/L
	Antimony	<[11]	25.8	4.8	14	SW-846 6010	11 µg/L
	Antimony-125	<[17.9]	<[42.7]	<[22.4]	14	Gamma Scan	20.2 pCi/L
	Aroclor 1232	<[0.11]	<[0.11]	<[0.11]	1	SW-846 8082	0.11 µg/L
	Aroclor 1242	<[0.11]	<[0.11]	<[0.11]	1	SW-846 8082	0.11 µg/L
	Aroclor 1248	<[0.11]	<[0.11]	<[0.11]	1	SW-846 8082	0.11 µg/L
	Aroclor 1254	<[0.11]	<[0.11]	<[0.11]	1	SW-846 8082	0.11 µg/L
	Aroclor 1260	<[0.11]	<[0.11]	<[0.11]	1	SW-846 8082	0.11 µg/L
X	Arsenic	<[0.3]	6.65	0.6	14	EPA-600 200.8	0.3 µg/L
	Barium	<[1]	1	0.07	14	SW-846 6010	1 µg/L
X	Benzene	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
	Benzyl alcohol	<[1.9]	<[2.1]	[1.9]	14	SW-846 8270	1.9 µg/L
X	Beryllium	<[1]	<[1]	<[1]	14	SW-846 6010	1 µg/L
	Bromide	<[50]	<[50]	<[50]	45	EPA-600 300.0	50 µg/L
	Bromodichloromethane	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
X	Cadmium	<[0.1]	0.21	0.03	14	EPA-600 200.8	0.1 µg/L
	Calcium	<[16]	63.7	16.2	14	SW-846 6010	25 µg/L
	Carbon disulfide	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
X	Carbon tetrachloride	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
	Carbon-14	<[3.82]	8.2	0.6	14	Laboratory Specific	4 pCi/L
	Cerium/praseodymium-144	<[85.3]	<[174]	<[102]	14	Gamma Scan	94.4 pCi/L
	Cerium-144	<[42.6]	<[87]	<[51]	14	Gamma Scan	47.2 pCi/L
	Cesium-134	<[6.36]	<[17]	<[8.4]	14	Gamma Scan	7.84 pCi/L
	Cesium-137	<[6.34]	<[16.4]	<[8.3]	14	Gamma Scan	7.53 pCi/L
X	Chloride	<[50]	70	7.1	45	EPA-600 300.0	50 µg/L
	Chlorobenzene	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
X	Chloroform	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
X	Chromium	0.37	9.37	1.27	14	EPA-600 200.8	0.3 µg/L
	Cobalt	<[1.2]	<[1.8]	<[1.7]	14	SW-846 6010	1.8 µg/L
	Cobalt-60	<[6.31]	<[15.5]	<[7.9]	14	Gamma Scan	6.49 pCi/L
X	Conductivity	<[0.49]	3.18	1.14	45	EPA-600 120.1	0.49 µmhos/cm
X	Copper	<[0.5]	4.13	0.34	14	EPA-600 200.8	0.5 µg/L
	Curium-242	<[0.05]	<[0.08]	<[0.07]	14	Laboratory Specific	0.06 pCi/L
	Curium-244	<[0.08]	1.2	0.14	14	Laboratory Specific	0.06 pCi/L
	Cyanide	<[4]	<[4]	<[4]	14	EPA-600 335.2	4 µg/L
	Di-n-octylphthalate	<[2.6]	<[2.9]	<[2.7]	14	SW-846 8270	2.6 µg/L
	Europium-152	<[20.9]	<[42.3]	<[24.0]	14	Gamma Scan	21.8 pCi/L

	Parameter	Concentrations Measured			Number of Analyses	Analytical Method Std. Methods 19th Edition	Detection Limit
		Minimum	Maximum	Average			
	Europium-154	<[16.7]	<[40.8]	<[21.9]	14	Gamma Scan	20.7 pCi/L
	Europium-155	<[22]	<[40]	<[25.4]	14	Gamma Scan	23 pCi/L
X	Flow	608,000	3,276,000	2,271,000	12	N/A	gal/month
	Fluoride	<[20]	<[20]	<[20]	45	EPA-600 300.0	20 µg/L
X	Gross Alpha	<[0.45]	1.3	0.14	45	Laboratory Specific	0.68 pCi/L
X	Gross Beta	<[0.85]	2.5	0.33	45	Laboratory Specific	0.97 pCi/L
	Hexachloroethane	<[5.7]	<[6.4]	<[5.9]	14	SW-846 8270	5.7 µg/L
	Iodine-129	<[3.4]	<[5.1]	<[4.1]	14	Laboratory Specific	4.7 PCi/L
	Iron	<[21]	<[31]	<[30]	14	SW-846 6010	31 µg/L
X	Lead	<[0.2]	3.49	0.31	14	EPA-600 200.8	1.2 µg/L
	Magnesium	<[19]	<[37]	<[34]	14	SW-846 6010	37 µg/L
	Manganese	<[1]	<[1]	<[1]	14	SW-846 6010	1 µg/L
X	Mercury	<[0.1]	0.58	0.05	14	EPA-600 200.8	0.1 µg/L
X	Methylene chloride	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
	Naphthalene	<[2.5]	<[2.8]	<[2.6]	14	SW-846 8270	2.5 µg/L
	Neptunium-237	0.04	0.27	0.07	14	Laboratory Specific	0.05 pCi/L
	Nickel	<[1.4]	<[3.2]	<[2.9]	14	SW-846 6010	3.2 µg/L
	Niobium-94	<[6.25]	<[14.7]	<[7.7]	14	Gamma Scan	7.1 pCi/L
X	Nitrate (as N)	<[10]	160	6.4	45	EPA-600 300.0	13 µg/L
X	Nitrite (as N)	<[20]	<[20]	<[20]	45	EPA-600 300.0	20 µg/L
X	N-Nitrosodimethylamine	<[3.3]	<[3.7]	<[3.4]	14	SW-846 8270	3.3 µg/L
	N-Nitroso-di-n-propylamine	<[1.8]	<[2]	<[1.8]	14	SW-846 8270	1.8 µg/L
	Pentachlorophenol	<[1.8]	<[2]	<[1.8]	14	SW-846 8270	1.8 µg/L
	Phenol	<[1.8]	<[2]	<[1.8]	14	SW-846 8270	1.8 µg/L
	Phosphate (as P)	<[50]	<[50]	<[50]	45	EPA-600 300.0	50 µg/L
	Plutonium-238	<[0.11]	<[0.34]	<[0.18]	14	Laboratory Specific	0.17 pCi/L
	Plutonium-239/240	<[0.04]	<[0.12]	<[0.07]	14	Laboratory Specific	0.04 pCi/L
	Potassium	<[115]	<[178]	<[169]	14	SW-846 6010	178 µg/L
	Propionitrile	<[2]	<[2]	<[2]	14	SW-846 8260	2 µg/L
	Pyrene	<[2.2]	<[2.4]	<[2.3]	14	SW-846 8270	2.2 µg/L
	Radium-226	0.01	0.18	0.02	14	Laboratory Specific	0.04 pCi/L
	Ruthenium-103	<[6.77]	<[14.9]	<[8.0]	14	Gamma Scan	6.77 pCi/L
	Ruthenium-106	<[60.2]	<[145]	<[73.5]	14	Gamma Scan	65.7 pCi/L
	Selenium	<[0.3]	<[0.4]	<[0.3]	14	EPA-600 200.8	0.3 µg/L
	Silicon	<[17]	788.6	63.2	14	SW-846 6010	28 µg/L
	Silver	<[2]	160	14.1	14	SW-846 6010	2.3 µg/L
	Sodium	<[200]	918.9	65.6	14	SW-846 6010	291 µg/L
X	Strontium-90	<[0.49]	<[1]	<[0.62]	14	Laboratory Specific	0.6 pCi/L
X	Sulfate	<[100]	<[100]	<[100]	45	EPA-600 300.0	100 µg/L
X	Technetium-99	<[2.4]	13	1.35	14	Laboratory Specific	2.7 pCi/L
X	Tetrachloroethylene	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
X	Tetrahydrofuran	<[2]	<[2]	<[2]	14	SW-846 8260	2 µg/L
	Thallium	<[20]	25.9	3.64	14	SW-846 6010	22 µg/L

	Parameter	Concentrations Measured			Number of Analyses	Analytical Method Std. Methods 19th Edition	Detection Limit
		Minimum	Maximum	Average			
	Tin-113	<[8.88]	<[18.5]	<[10.4]	14	Gamma Scan	9.37 pCi/L
	Titanium	<[2.6]	<[2.6]	<[2.6]	14	SW-846 6010	2.6 µg/L
	Toluene	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
	Total cresol	<[5.5]	<[6.2]	<[5.7]	14	SW-846 8270	5.5 µg/L
X	Total dissolved solids	<[9,000]	12,000	2,214	14	EPA-600 160.1	9,000 µg/L
X	Total organic carbon	<[300]	1,000	94.3	46	SW-846 9060	300 µg/L
X	Total suspended solids	<[1,000]	2,000	133	15	EPA-600 160.2	1,000 µg/L
	Tributyl phosphate	<[2.6]	<[2.9]	<[2.7]	14	SW-846 8270	2.6 µg/L
	Trichloroethene	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
X	Tritium	660	3E+06	552,840	14	EPA-600 906.0	207 pCi/L
X	Uranium (total)	<[0.1]	0.28	0.04	14	EPA-600 200.8	0.1 µg/L
	Vanadium	<[3]	4.3	0.31	14	SW-846 6010	3.6 µg/L
	Vinyl chloride	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
	Xylene (total)	<[1]	<[1]	<[1]	14	SW-846 8260	1 µg/L
	Zinc	<[3]	<[5.2]	<[4.9]	14	SW-846 6010	5.2 µg/L
	Zinc-65	<[13.8]	<[31]	<[16.5]	14	Gamma Scan	15.4 pCi/L

3. Describe the collection method for the samples analyzed above (i.e. grab, 24 hour composite).

   Grab sampling of the verification tanks is the exclusive method used to obtain samples of the treated wastewater. A grab sample is taken from the recirculation piping while the verification tank is recirculating prior to discharge. Sampling equipment is available to obtain a flow-proportional composite sample as the treated wastewater is entering the verification tank; however, a grab sample of the verification tank contents has been shown to be as representative as a composite sample.

4. Has the effluent been analyzed for any other parameters than those identified in question E.2? If yes, when? *(Attach results and label attachment E.4.) (Note: Ecology may require additional testing.)*

   ☒ YES ☐ NO

   Rather than providing an additional attachment (E.4), the table in Section E.2 was modified to include analysis data for required parameters (denoted with an "X" in the first column) and all other parameters analyzed for in the effluent samples.

5: Does this facility use any of the following chemicals as raw materials, produce them as part of the manufacturing process, or are they present in the wastewater? (*The number following the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.*)
☒ YES ☐ NO

If yes, specify how the chemical is used and the quantity used or produced: None of the chemicals listed are used as raw materials in the ETF treatment process or are produced at ETF. However, arsenic, benzene, and methylene chloride have been detected in treated wastewater.

Acrylamide/79-06-1
Acrylonitrile/107-13-1
Aldrin/309-00-2
Aniline/62-53-3
Aramite/140-57-8
Arsenic/7440-38-2
Azobenzene/103-33-3
Benzene/71-43-2
Benzidine/92-87-5
Benzo(a)pyrene/50-32-8
Benzotrichloride/98-07-7
Benzyl chloride/100-44-7
Bis(chloroethyl)ether/111-44-4
Bis(chloromethyl)ether/542-88-1
Bis(2-ethylhexyl) phthalate/
117-81-7
Bromodichloromethane/75-27-4
Bromoform/75-25-2
Carbazole/86-74-8
Carbon tetrachloride/56-23-5
Chlordane/57-74-9
Chlorodibromomethane/124-48-1
Chloroform/67-66-3
Chlorthalonil/1897-45-6
2,4-D/94-75-7
DDT/50-29-3
Diallate/2303-16-4
1,2 Dibromoethane/106-93-4
1,4 Dichlorobenzene/106-46-7
3,3' Dichlorobenzidine/91-94-1
1,1 Dichloroethane/75-34-3
1,2 Dichloroethane/107-06-2
Nitrofurazone/59-87-0
N-nitrosodiethanolamine/
1116-54-7
N-nitrosodiethylamine/55-18-5
N-nitrosodimethylamine/62-75-9
N-nitrosodiphenylamine/86-30-6
N-nitroso-di-n-propylamine/
621-64-7
N-nitrosopyrrolidine/930-55-2
N-nitroso-di-n-butylamine/
924-16-3
N-nitroso-n-methylethylamine/
10595-95-6
PAH/NA
PBBs/NA
PCBs/1336-36-3
1,2 Dichloropropane/78-87-5
1,3 Dichloropropene/542-75-6
Dichlorvos/62-73-7
Dieldrin/60-57-1
3,3' Dimethoxybenzidine/119-90-4
3,3 Dimethylbenzidine/119-93-7
1,2 Dimethylhydrazine/540-73-8
2,4 Dinitrotoluene/121-14-2
2,6 Dinitrotoluene/606-20-2
1,4 Dioxane/123-91-1
1,2 Diphenylhydrazine/122-66-7
Endrin/72-20-8
Epichlorohydrin/106-89-8
Ethyl acrylate/140-88-5
Ethylene dibromide/106-93-4
Ethylene thioureae/96-45-7
Folpet/133-07-3
Furmecyclox/60568-05-0
Heptachlor/76-44-8
Heptachlor epoxide/1024-57-3
Hexachlorobenzene/118-74-1
Hexachlorocyclohexane (alpha)/
319-84-6
Hexachlorocyclohexane (tech.)/
608-73-1
Hexachlorodibenzo-p-dioxin,
mix/19408-74-3
Hydrazine/hydrazine sulfate/
302-01-2
Lindane/58-89-9
2 Methylaniline/100-61-8
2 Methylaniline hydrochloride/
636-21-5
4,4' Methylene bis(N,N-
dimethyl)aniline/101-61-1
Methylene chloride
(dichloromethane)/75-09-2
Mirex/2385-85-5
O-phenylenediamine/106-50-3
Propylene oxide/75-56-9
2,3,7,8-Tetrachlorodibenzo-p-dioxin/
1746-01-6
Tetrachloroethylene/127-18-4
2,4 Toluenediamine/95-80-7
o-Toluidine/95-53-4
Toxaphene/8001-35-2
Trichloroethylene/79-01-6
2,4,6-Trichlorophenol/88-06-2
Trimethyl phosphate/512-56-1
Vinyl chloride/75-01-4

6. Are any other pesticides, herbicides or fungicides used at this facility? ☒ YES ☐ NO

If yes, specify the material and quantity used: Herbicides and pesticides are applied across the Hanford Site, including around the ETF and SALDS, by licensed applicators in accordance with manufacturers' instructions. This use does not present a direct pathway into the wastewater treatment system. Specific information on materials used is available for review at the facility.

7. Are there other pollutants that you know of or believe to be present? ☐ YES ☒ NO
If yes, specify the pollutants and their concentration if known (attach laboratory analyses if available). ☐ DON'T KNOW

SECTION F. GROUND WATER INFORMATION

Provide available data measurements or ranges from monitoring wells or supply wells in the area of discharge. Provide the analytical method and detection limit, if known. Provide the location of each well on the map required in G.3 below. Attach well logs and well I.D. # when available. Copy this page as necessary for each well.

Values in each of the following three tables represent analyses results from September 13, 2003 to September 13, 2004. Parameters denoted with an "X" in the left column are required to be monitored by the ST 4500 Permit.

Well ID # 699-48-77A

	Parameter	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
	1,1,1-Trichloroethane	<[0.17] - 0.34	5	SW-846 8260	0.17 µg/L
	1,1,2-Trichloroethane	<[0.05] - <[0.21]	5	SW-846 8260	0.21 µg/L
	1,1-Dichloroethane	<[0.12] - <[0.2]	5	SW-846 8260	0.2 µg/L
	1,2-Dichloroethane	<[0.08] - 0.22	5	SW-846 8260	0.21 µg/L
	1,4-Dichlorobenzene	<[0.11] - <[0.16]	5	SW-846 8260	0.11 µg/L
	1,4-Dichlorobenzene	<[0.92]	1	SW-846 8270	0.92 µg/L
	1, 4-Dioxane	<[11] - <[11]	3	SW-846 8260	11 µg/L
	1-Butanol	<[4.6] - <[4.6]	5	SW-846 8260	4.6 µg/L
	2, 4-Dichlorophenol	<[0.91]	1	SW-846 8270	0.91 µg/L
	2-Butanone	<[0.1] - <[0.29]	5	SW-846 8260	0.29 µg/L
	2-Methylphenol	<[0.93]	1	SW-846 8270	0.93 µg/L
	2-Nitrophenol	<[1.9]	1	SW-846 8270	1.9 µg/L
	2-Picoline	<[1.2]	1	SW-846 8270	1.2 µg/L
	3 & 4-Methylphenol (total)	<[1.7]	1	SW-846 8270	1.7 µg/L
	4-Methyl-2-pentanone	<[0.19] - <[0.35]	5	SW-846 8260	0.35 µg/L
	4-Methylphenol	<[1.5]	1	SW-846 8270	1.5 µg/L
X	Acetone	<[0.21] - 2.1	5	SW-846 8260	0.66 µg/L
	Alkalinity	62,000 - 82,000	5	EPA-600 310.1	1,200 µg/L
	Aluminum	<[34.2] - <[95.8]	5	SW-846 6010	34.2 µg/L
	Ammonia	<[26.3]	1	EPA-600 350.1	26.3 µg/L
	Antimony	<[28.5] - <[39]	5	SW-846 6010	39 µg/L
	Antimony-125	<[7.41]	1	Gamma Scan	7.41 pCi/L
	Barium	6.1 - <[8.6]	5	SW-846 6010	8.6 µg/L
X	Benzene	<[0.07] - <[0.11]	5	SW-846 8260	0.11 µg/L
	Benzothiazole	<[0.84]	1	SW-846 8270	0.84 µg/L
	Beryllium	<[0.4] - 0.6	5	SW-846 6010	0.4 µg/L
	Beryllium-7	<[46.5]	1	Gamma Scan	46.5 pCi/L
	Bis (2-ethylhexyl) phthalate	<[3.6]	1	SW-846 8270	3.6 µg/L
X	Cadmium	<[2.5] - <[3.3]	5	SW-846 6010	3.3 µg/L
X	Cadmium	<[0.078] - 0.085	2	SW-846 7131	0.078 µg/L
	Calcium	10,200 - 12,000	5	SW-846 6010	250 µg/L
	Carbon disulfide	<[0.06] - <[0.43]	5	SW-846 8260	0.43 µg/L

Well ID # 699-48-77A

	Parameter	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
	Carbon tetrachloride	<[0.1] - <[0.15]	5	SW-846 8260	0.15 µg/L
	Carbon-14	<[7.89]	1	Laboratory Specific	7.89 pCi/L
	Cesium-134	<[2.57]	1	Gamma Scan	2.57 pCi/L
	Cesium-137	<[0.356]	1	Gamma Scan	3.79 pCi/L
	Chloride	170 - 290	5	EPA-600 300.0	45 µg/L
X	Chloroform	<[0.07] - 0.14	5	SW-846 8260	0.11 µg/L
	Chromium	13.6 - 76.8	5	SW-846 6010	4.4 µg/L
	cis-1,2-Dichloroethylene	<[0.06] - <[0.1]	5	SW-846 8260	0.1 µg/L
	Cobalt	<[4.5] - <[4.8]	5	SW-846 6010	4.8 µg/L
	Cobalt-60	<[3.13]	1	Gamma Scan	3.13 pCi/L
X	Conductivity	114 - 129	4	Field Measurement	1 µmhos/cm
X	Copper	<[2.9] - 4.1	5	SW-846 6010	2.9 µg/L
	Cyanide	<[4.7]	1	SW-846 9012	4.7 µg/L
	Dissolved oxygen	6,800 - 7,850	7	EPA-600 360.1	10 µg/L
	Ethyl cyanide	<[1.3] - <[1.3]	5	SW-846 8260	1.3 µg/L
	Ethylbenzene	<[0.1] - <[0.14]	5	SW-846 8260	0.14 µg/L
	Europium-152	<[2.19]	1	Gamma Scan	8.53 pCi/L
	Europium-154	<[9.07]	1	Gamma Scan	9.07 pCi/L
	Europium-155	<[1.8]	1	Gamma Scan	7.03 pCi/L
	Fluoride	350 - 570	5	EPA-600 300.0	40 µg/L
X	Gross alpha	<[[0.0159] - <[1.89]	5	Laboratory Specific	3 pCi/L
X	Gross beta	<[1.56] - 4.2	5	Laboratory Specific	4 pCi/L
	Iodine-129	<[0.16]	1	Laboratory Specific	0.16 pCi/L
	Iron	103 - 376	5	SW-846 6010	54.5 µg/L
X	Lead	<[0.97] - 2.3	5	SW-846 7421	1.3 µg/L
	Magnesium	4,110 - 4,790	5	SW-846 6010	146 µg/L
	Manganese	0.97 - 8.3	5	SW-846 6010	1.2 µg/L
X	Mercury	<[0.1] - <[0.1]	5	SW-846 7470	0.1 µg/L
	Methylene chloride	<[0.3] - 1.4	5	SW-846 8260	0.3 µg/L
	Naphthalene	<[1.1]	1	SW-846 8270	1.1 µg/L
	n-Butylbenzene	<[0.12]	1	SW-846 8260	0.12 µg/L
	Neptunium-237	<[0.28]	1	Laboratory Specific	0.28 pCi/L
	Nickel	<[14] - 32.3	5	SW-846 6010	14 µg/L
	Nitrate (as N)	257 - 1,110	5	EPA-600 300.0	48.7 µg/L
	Nitrite (as N)	<[13.1] - <[24.3]	5	EPA-600 300.0	24.3 µg/L
	Oxidation reduction potential	153.1	1	Field Measurement	0.1 mV
	Pentachlorophenol	<[3.8]	1	SW-846 8270	3.8 µg/L
X	pH measurement	6.80 - 8.39	8	Field Measurement	0.01 units
	Phenol	<[0.52]	1	SW-846 8270	0.52 µg/L
	Potassium	<[3,000] - 5,480	5	SW-846 6010	3,000 µg/L
	Potassium-40	<[56.9]	1	Gamma Scan	56.9 pCi/L
	Protactinium-231	<[2.42]	1	Gamma Scan	93.3 pCi/L
	Ruthenium-106	<[38.6]	1	Gamma Scan	38.6 pCi/L

Well ID # 699-48-77A

	Parameter	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
	Selenium-79	<[6.65]	1	Laboratory Specific	11.2 pCi/L
	Silver	<[3.1] - <[3.7]	5	SW-846 6010	3.1 µg/L
	Sodium	6,220 - 7,050	5	SW-846 6010	162 µg/L
	Strontium	48.7 - 62.1	4	SW-846 6010	1.9 µg/L
X	Strontium-90	<[0.0733] - <[0.447]	5	Laboratory Specific	2 pCi/L
X	Sulfate	1,700 - 2,300	5	EPA-600 300.0	54 µg/L
	Technetium-99	<[0.0111]	1	Laboratory Specific	9.74 pCi/L
X	Temperature	22.9 - 23.0	4	Field Measurement	0.1 °C
	Tetrachloroethene	<[0.08] - <[0.17]	5	SW-846 8260	0.17 µg/L
X	Tetrahydrofuran	<[1.7] - <[1.7]	5	SW-846 8260	1.7 µg/L
	Toluene	<[0.07] - <[0.12]	5	SW-846 8260	0.12 µg/L
X	Total dissolved solids	88,000 - 120,000	5	EPA-600 160.1	3,500 µg/L
	Total petroleum hydrocarbon	<[60]	1	WTPH-D	60 µg/L
	Total petroleum hydrocarbon	<[29]	1	WTPH-G	29 µg/L
	trans-1, 2-Dichloroethylene	<[0.09] - <[0.17]	5	SW-846 8260	0.17 µg/L
	Tributyl phosphate	<[0.94]	1	SW-846 8270	0.94 µg/L
	Trichloroethene	<[0.09] - <[0.16]	5	SW-846 8260	0.16 µg/L
	Tris-2-chloroethyl phosphate	<[0.24]	1	SW-846 8270	0.24 µg/L
X	Tritium	1,630 - 116,000	5	EPA-600 906.0	400 pCi/L
	Turbidity	1.01 - 2.61	7	Nephelometry	0.01 NTU
	Uranium (total)	0.0877	1	Laboratory Specific	0.01 µg/L
	Vanadium	59.8 - 63.8	5	SW-846 6010	5 µg/L
	Vinyl chloride	<[0.08] - <[0.25]	5	SW-846 8260	0.25 µg/L
X	Water level	137.3 - 137.5	4	Field Measurement	0.1 feet
	Xylenes (total)	<[0.28] - <[0.28]	5	SW-846 8260	0.28 µg/L
	Zinc	<[3.5] - 7.4	5	SW-846 6010	2.7 µg/L

WTPH-G = Washington total petroleum hydrocarbons as gasoline
WTPH-D = Washington total petroleum hydrocarbons as diesel

Well ID # 699-48-77C

	Parameter	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
	1,1,1-Trichloroethane	<[0.07] - 0.19	4	SW-846 8260	0.17 µg/L
	1,1,2-Trichloroethane	<[0.05] - <[0.21]	4	SW-846 8260	0.21 µg/L
	1,1-Dichloroethane	<[0.12] - <[0.2]	4	SW-846 8260	0.2 µg/L
	1,2-Dichloroethane	<[0.08] - <[0.21]	4	SW-846 8260	0.21 µg/L
	1,4-Dichlorobenzene	<[0.11] - 0.14	4	SW-846 8260	0.11 µg/L
	1,4-Dioxane	<[11] - <[11]	2	SW-846 8260	11 µg/L
	1-Butanol	<[4.6] - <[4.6]	4	SW-846 8260	4.6 µg/L
	2-Butanone	<[0.1] - <[0.29]	4	SW-846 8260	0.29 µg/L
	4-Methyl-2-pentanone	<[0.19] - <[0.35]	4	SW-846 8260	0.35 µg/L
X	Acetone	<[0.21] - 8.2	4	SW-846 8260	0.66 µg/L

Well ID # 699-48-77C

	Parameter	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
	Alkalinity	104,000 - 111,000	4	EPA-600 310.1	1,200 µg/L
	Aluminum	<[34.2] - <[95.8]	4	SW-846 6010	34.2 µg/L
	Antimony	<[28.5] - <[39]	4	SW-846 6010	39 µg/L
	Barium	17.9 - 19.1	4	SW-846 6010	8.6 µg/L
X	Benzene	<[0.07] - <[0.11]	4	SW-846 8260	0.11 µg/L
	Beryllium	<[0.33] - 0.44	4	SW-846 6010	0.4 µg/L
X	Cadmium	<[2.5] - <[3.3]	4	SW-846 6010	3.3 µg/L
X	Cadmium	<[0.078] - <[0.078]	2	SW-846 7131	0.078 µg/L
	Calcium	24,100 - 27,500	4	SW-846 6010	250 µg/L
	Carbon disulfide	<[0.06] - <[0.43]	4	SW-846 8260	0.43 µg/L
	Carbon tetrachloride	<[0.1] - 0.19	4	SW-846 8260	0.15 µg/L
	Chloride	810 - 1,200	4	EPA-600 300.0	45 µg/L
X	Chloroform	<[0.07] - <[0.11]	4	SW-846 8260	0.11 µg/L
	Chromium	10.4 - 39.4	4	SW-846 6010	4.4 µg/L
	cis-1,2-Dichloroethylene	<[0.06] <[0.1]	4	SW-846 8260	0.1 µg/L
	Cobalt	<[4.5] - <[4.8]	4	SW-846 6010	4.8 µg/L
X	Conductivity	221 - 226	4	Field Measurement	1 µmhos/cm
X	Copper	<[2.9] - <[3.2]	4	SW-846 6010	2.9 µg/L
	Dissolved oxygen	8,490 - 9,210	7	EPA-600 360.1	10 µg/L
	Ethyl cyanide	<[1.3] - <[1.3]	4	SW-846 8260	1.3 µg/L
	Ethylbenzene	<[0.1] - <[0.14]	4	SW-846 8260	0.14 µg/L
	Fluoride	250 - 420	4	EPA-600 300.0	40 µg/L
X	Gross alpha	<[0.595] - <[2.09]	4	Laboratory Specific	3 pCi/L
X	Gross beta	2.7 - 5.92	4	Laboratory Specific	4 pCi/L
	Iron	<[49.4] - 178	4	SW-846 6010	54.5 µg/L
X	Lead	<[0.97] - <[1.3]	4	SW-846 7421	1.3 µg/L
	Magnesium	8,410 - 8,940	4	SW-846 6010	146 µg/L
	Manganese	<[0.81] - 3.6	4	SW-846 6010	1.2 µg/L
X	Mercury	<[0.1] - <[0.1]	4	SW-846 7470	0.1 µg/L
	Methylene chloride	<[0.3] - 1	4	SW-846 8260	0.3 µg/L
	Nickel	<[12.9] - 20	4	SW-846 6010	14 µg/L
	Nitrate (as N)	575 - 708	4	EPA-600 300.0	48.7 µg/L
	Nitrite (as N)	<[13.1] - <[24.3]	4	EPA-600 300.0	24.3 µg/L
	Oxidation reduction potential	172.0	1	Field Measurement	0.1 mV
X	pH measurement	7.81 - 8.13	8	Field Measurement	0.01 units
	Potassium	3,330 - 4,830	4	SW-846 6010	3,000 µg/L
	Silver	<[3.1] - <[3.7]	4	SW-846 6010	3.1 µg/L
	Sodium	7,520 - 8,020	4	SW-846 6010	162 µg/L
	Strontium	91.7 - 99.9	3	SW-846 6010	1.9 µg/L
X	Strontium-90	<[0.1] - <[0.238]	4	Laboratory Specific	2 pCi/L
X	Sulfate	4,900 - 6,600	4	EPA-600 300.0	54 µg/L
X	Temperature	17.8 - 18.2	4	Field Measurement	0.1 °C
	Tetrachloroethene	<[0.08] - <[0.17]	4	SW-846 8260	0.17 µg/L

Well ID # 699-48-77C

	Parameter	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
X	Tetrahydrofuran	<[1.7] - <[1.7]	4	SW-846 8260	1.7 µg/L
	Toluene	<[0.07] - <[0.12]	4	SW-846 8260	0.12 µg/L
X	Total dissolved solids	159,000 - 185,000	4	EPA-600 160.1	3,500 µg/L
	trans-1, 2-Dichloroethylene	<[0.09] - <[0.17]	4	SW-846 8260	0.17 µg/L
	Trichloroethene	<[0.09] - <[0.16]	4	SW-846 8260	0.16 µg/L
X	Tritium	180,000 - 229,000	4	EPA-600 906.0	400 pCi/L
	Turbidity	0.75 - 1.39	7	Nephelometry	0.01 NTU
	Vanadium	29.4 - 34.8	4	SW-846 6010	5 µg/L
	Vinyl chloride	<[0.08] - <[0.25]	4	SW-846 8260	0.25 µg/L
X	Water level	136.5 - 136.7	4	Field Measurement	0.1 feet
	Xylenes (total)	<[0.28] - <[0.28]	4	SW-846 8260	0.28 µg/L
	Zinc	<[2.7] - 6.8	4	SW-846 6010	2.7 µg/L

Well ID # 699-48-77D

	Parameter	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
	1,1,1-Trichloroethane	<[0.07] - 0.22	4	SW-846 8260	0.17 µg/L
	1,1,2-Trichloroethane	<[0.05] - <[0.21]	4	SW-846 8260	0.21 µg/L
	1,1-Dichloroethane	<[0.12] - <[0.2]	4	SW-846 8260	0.2 µg/L
	1,2-Dichloroethane	<[0.08] - <[0.21]	4	SW-846 8260	0.21 µg/L
	1,4-Dichlorobenzene	<[0.11] - 0.11	4	SW-846 8260	0.11 µg/L
	1, 4-Dioxane	<[11] - <[11]	2	SW-846 8260	11 µg/L
	1-Butanol	<[4.6] - <[4.6]	4	SW-846 8260	4.6 µg/L
	2-Butanone	<[0.1] - <[0.29]	4	SW-846 8260	0.29 µg/L
	4-Methyl-2-pentanone	<[0.19] - <[0.35]	4	SW-846 8260	0.35 µg/L
X	Acetone	<[0.66] - 1.6	4	SW-846 8260	0.66 µg/L
	Alkalinity	94,000 - 112,000	4	EPA-600 310.1	1,200 µg/L
	Aluminum	<[34.2] - 329	4	SW-846 6010	34.2 µg/L
	Antimony	<[28.5] - <[39]	4	SW-846 6010	39 µg/L
	Barium	14.9 - 16.7	4	SW-846 6010	8.6 µg/L
X	Benzene	<[0.07] - <[0.11]	4	SW-846 8260	0.11 µg/L
	Beryllium	<[0.4] - 0.64	4	SW-846 6010	0.4 µg/L
X	Cadmium	<[2.5] - <[3.3]	4	SW-846 6010	3.3 µg/L
X	Cadmium	<[0.078] - <[0.078]	2	SW-846 7131	0.078 µg/L
	Calcium	24,900 - 27,700	4	SW-846 6010	250 µg/L
	Carbon disulfide	<[0.06] - <[0.43]	4	SW-846 8260	0.43 µg/L
	Carbon tetrachloride	<[0.1] - <[0.15]	4	SW-846 8260	0.15 µg/L
	Chloride	1,200 - 3,000	4	EPA-600 300.0	45 µg/L
X	Chloroform	<[0.07] - <[0.11]	4	SW-846 8260	0.11 µg/L
	Chromium	7.4 - 28.7	4	SW-846 6010	4.4 µg/L
	cis-1,2-Dichloroethylene	<[0.06] <[0.1]	4	SW-846 8260	0.1 µg/L
	Cobalt	<[4.5] - <[4.8]	4	SW-846 6010	4.8 µg/L

Summary of Attachments That May be Required for This Application:
(Please check those attachments which are included)

- ☐ C.2. Production schematic flow diagram and water balance
- ☐ C.4. Wastewater treatment improvements
- ☐ C.7. Additional incidental materials
- ☐ E.4. Additional results of effluent testing
- ☐ G.1. Copies of land use contracts
- ☐ G.3. USGS topographical map
- ☐ G.4. Soils description
- ☐ G.5. Local geology and hydrology
- ☐ H.6. Stormwater drainage map

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SECTION H. STORMWATER

Completion of Sections H.1 through H.6 was not required for the 1999 reapplication.

1. Do you have coverage under the Washington State Industrial Stormwater NPDES General Permit? ☐ YES ☐ NO
   If yes, please list the permit number here. _____
   If no, have you applied for coverage under the Washington State Industrial Stormwater NPDES General Permit? ☐ YES ☐ NO

Note: If you answered "no" to both questions above, complete questions 2 through 6.

2. Describe the size of the stormwater collection area:
   a. Unpaved area _____ sq.ft.
   b. Paved area _____ sq.ft.
   c. Other collection areas (roofs) _____ sq.ft.

3. Does your facility's stormwater discharge to: *(Check all that apply)*
   - ☐ Storm sewer system; name of storm sewer system *(operator)*: _____
   - ☐ Directly to surface waters of Washington state *(e.g., river, lake, creek, estuary, ocean)*.
     Specify waterbody name(s) _____
   - ☐ Indirectly to surface waters of Washington state *(i.e., flows over adjacent properties first)*.
   - ☐ Directly to ground waters of Washington state by means of:
     - ☐ Dry well
     - ☐ Drainfield
     - ☐ Other

4. Areas with industrial activities at facility: *(check all that apply)*
   - ☐ Manufacturing building
   - ☐ Material handling
   - ☐ Material storage
   - ☐ Hazardous waste treatment, storage, or disposal *(Refers to RCRA, Subtitle C Facilities Only)*
   - ☐ Waste treatment, storage, or disposal
   - ☐ Application or disposal of wastewaters
   - ☐ Storage and maintenance of material handling equipment
   - ☐ Vehicle maintenance
   - ☐ Areas where significant materials remain
   - ☐ Access roads and rail lines for shipping and receiving
   - ☐ Other _____

5. Material handling/management practices

a. Types of materials handled and/or stored outdoors: *(check all that apply)*

- ☐ Solvents
- ☐ Scrap metal
- ☐ Petroleum or petrochemical products
- ☐ Plating products
- ☐ Pesticides
- ☐ Hazardous wastes
- ☐ Acids or alkalies
- ☐ Paints/coatings
- ☐ Woodtreating products
- ☐ Other *(please list)*: _____

b. Identify existing management practices employed to reduce pollutants in industrial storm water discharges: *(check all that apply)*

- ☐ Oil/water separator
- ☐ Containment
- ☐ Spill prevention
- ☐ Surface leachate collection
- ☐ Overhead coverage
- ☐ Detention facilities
- ☐ Infiltration basins
- ☐ Operational BMPs
- ☐ Vegetation management
- ☐ Other *(please list)*: _____

6. Attach a map showing storm water drainage/collection areas, disposal areas and discharge points. This may be a hand-drawn map if no other site map is available. *(Label this as attachment H.6.)*

SECTION I. OTHER INFORMATION

1. Describe liquid wastes or sludges being generated by your facility that are not disposed of in the waste stream(s) and how they are being disposed of. For each type of waste, provide type of waste and the name, address, and phone number of the hauler.

   Contaminants removed during wastewater treatment are converted to a sludge or dry powder form that is designated and dispositioned in accordance with the waste designation process. Several onsite permitted treatment, storage, and disposal facilities are available for managing these sludge and powder wastes, including the Environmental Restoration Disposal Facility (ERDF), T-Plant Complex, Central Waste Complex (CWC), Mixed Waste Disposal Trench, and low-level radioactive waste disposal facilities. Such wastes may also be returned to the waste generator for further treatment and/or disposal.

   Other solid wastes generated during the course of treating wastewater include a variety of solid waste streams segregated from the wastewater stream. Maintenance wastes and spill cleanup wastes are examples of solid wastes that may contain trace amounts of wastewater and are managed in accordance with WAC 173-303. The name, address, and phone number of the hauler is the same as that of the applicant.

2. Describe storage areas for raw materials, products, and wastes.

   Raw materials used in wastewater treatment include bulk chemicals that are stored in tanks and containers at the ETF.

   Prior to treatment, wastewater may be stored in containers and stainless steel tanks at the ETF, or may be stored at the Liquid Effluent Retention Facility (LERF). The LERF consists of three double-lined surface impoundments located near ETF. Treated wastewater is temporarily stored at the ETF in epoxy-lined carbon steel verification tanks prior to discharge to SALDS.

   Solid wastes, including dry powder waste containing contaminants removed in the treatment process, are accumulated in waste containers located in select areas at the ETF. Filled containers are stored in a container storage area or at less-than-90-day storage pads.

   The ETF is designed and operated to remove contaminants and prevent introduction of raw materials and these removed contaminants into the treated wastewater stream discharged to SALDS. Chemical and wastewater tanks are located in areas with secondary containment. These areas are physically isolated from the treated wastewater stream. Containers are also stored in areas that are physically separated from the treated wastewater.

3. Have you designated the wastes described above according to the applicable procedures of Dangerous Waste Regulations, Chapter 173-303 WAC? ☒ YES ☐ NO ☐ DON'T KNOW

   All wastes described above have been designated according to the applicable procedures of WAC 173-303.

Summary of Attachments That May be Required for This Application:
(Please check those attachments which are included)

- ☐ C.2. Production schematic flow diagram and water balance
- ☐ C.4. Wastewater treatment improvements
- ☐ C.7. Additional incidental materials
- ☐ E.4. Additional results of effluent testing
- ☐ G.1. Copies of land use contracts
- ☐ G.3. USGS topographical map
- ☐ G.4. Soils description
- ☐ G.5. Local geology and hydrology
- ☐ H.6. Stormwater drainage map

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