BEFORE THE STATE OF WASHINGTON
ENERGY FACILITY SITE EVALUATION COUNCIL

In the Matter of: Application No. 2013-01 TESORO SAVAGE, LLC VANCOUVER ENERGY DISTRIBUTION TERMINAL	CASE NO. 15-001 DECLARATION OF BRIAN CARRICO

I, Brian Carrico, state as follows:

1. I am over eighteen years of age, have personal knowledge of the matters herein, and am competent to testify regarding all matters set forth herein.

2. I am a Senior Project Manager with BergerABAM. I am Deputy Project Manager for the Vancouver Energy, LLC ("Vancouver Energy") petroleum terminal project in Vancouver, Washington.

3. I am familiar with the applicable laws and regulations for siting, construction, and operation of energy facilities, including those concerning the requirement that Vancouver Energy obtain a permit from EFSEC for discharges of industrial waste to the City of Vancouver Publicly Owned Treatment Works (POTW).

4. On August 28, 2013, the City of Vancouver issued a letter to BergerABAM confirming that the POTW has capacity to receive and treat all proposed discharges of industrial waste from the terminal project. Attached hereto as Exhibit A.

5. On August 29, 2013, BergerABAM submitted to EFSEC on behalf of the Applicant the Application for Site Certification for the Tesoro Savage Vancouver Energy Distribution Terminal to EFSEC, including a City of Vancouver Industrial Information Form, and an Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to a Publicly-Owned Treatment Works (POTW). Application for State Waste

Van Ness Feldman LLP
719 Second Avenue Suite 1150
Seattle, WA 98104
(206) 623-9372

Discharge Form and City of Vancouver Industrial Information Form Attached hereto as Exhibit B.

6. On February 25, 2014, BergerABAM resubmitted the Applicant's Application for Industrial Waste Discharge Permit to the Energy Facilities Site Evaluation Counsel (EFSEC). Attached hereto as Exhibit C.

7. On February 19, 2016, I received a letter from EFSEC, advising the Applicant that its application for industrial waste discharge permit must be submitted to the City of Vancouver. Attached hereto as Exhibit D.

8. I declare under the penalty of perjury of the laws of Washington and the United States that the foregoing statements are true and correct.

DATED this 29th day of March, 2016.

Brian Carrico, Declarant

Van Ness Feldman LLP
719 Second Avenue Suite 1150
Seattle, WA 98104
(206) 623-9372

EXHIBIT A

City of Vancouver • P.O. Box 1995 • Vancouver, WA 98668-1995
www.cityofvancouver.us

August 28, 2013

Sam Adams, P.E.
BergerABAM
1111 Main Street, Suite 300
Vancouver, WA 98669-2958

Tesoro Savage Terminal - Availability of Public Sanitary Sewer Service

The proposed Tesoro Savage Terminal project is located within the City of Vancouver's sanitary sewer service area. The City maintains existing public gravity piping is the project area. A public pump station delivers area flows about one mile southeast to Vancouver's Westside Water Reclamations Facility.

The applicant is requesting an average discharge of 24,000 gallons-per-day (gpd) and a maximum day discharge of 36,000 gpd. The existing gravity pipes, pump station, and reclamation facilities have adequate hydraulic and treatment capacity to accommodate these requested flows.

Vancouver maintains local jurisdiction for discharges of non-domestic wastewater to public sanitary sewer. The City's Industrial Pretreatment Program is the federally delegated, has a Pretreatment Ordinance codified in municipal code (VMC 14.10), and is approved by the Washington Department of Ecology and the US EPA.

Conditions for service will be itemized in the project's upcoming staff report and recommendations to the Hearings Examiner.

Sincerely,

AAOdegard

Aaron A. Odegard, PE
Civil Engineer
Sanitary System Planning & Design
360-487-7153

c: Frank Dick, Engineering
Jon Wagner, CED.
PIR-34550

EXHIBIT B

BergerABAM

33301 Ninth Avenue South, Suite 300, Federal Way, Washington 98003-2600
206/431-2300 • 206/431-2250 Fax • www.abam.com

Transmittal Memorandum

To: Stephen Posner

1300 S. Evergreen Park Dr. S.W.
Olympia, WA 98504-3172
360-664-1903

Date: August 29, 2013

Project: Tesoro Savage Vancouver Energy Distribution Terminal

Our Number: A.13.0267.00

Your Number: Application No. 2013-01

Regarding: Tesoro Savage Petroleum Terminal LLC

Quantity	ID Number	Date	Description
53		29 Aug 13	Application for Site Certification Agreement – Volume 1 – Includes CD
53		29 Aug 13	Application for Site Certification Agreement – Volume 2 Appendices
100		29 Aug 13	CD's Containing PDF Version of Volume I & II
1		29 Aug 13	Envelope containing: • CD Containing PDF Version of Volume I & II, Word Documents, and Emissions Calculations PDF • Savage Letter to Vancouver City Manager • Savage Letter to Board of Clark County Commissioners • Savage Letter to Port of Vancouver • Original Tesoro Savage Letter
1		29 Aug 13	Ground Lease Between Port of Vancouver and Tesoro Savage Petroleum Terminal LLC
1		29 Aug 13	Applicable Land Use and Zoning Ordinances
1		29 Aug 13	CD Containing PDF of the Lease, Land Use, Zoning Ordinances
1		29 Aug 13	Check for $50,000

Remarks:

cc: File

By: Irina Makarow

Title: Environmental Planner Project Manager

Section 5.2 – Wastewater/Stormwater Discharge Permit Applications

WAC 463-60-537
Applications for Permits and Authorizations – Wastewater/stormwater discharge permit applications.

The application for site certification shall include:

(1) A completed National Pollutant Discharge Elimination System (NPDES) permit application, for any proposed discharge to surface waters of the state of Washington, pursuant to the requirements of WAC 463-76-031; or

(2) For any proposed discharge to publicly owned treatment works (POTW) and/or groundwater of the state of Washington, a state waste discharge application;

(3) A notice of intent to be covered under any applicable statewide general permit for storm water discharge.

(04-23-003, recodified as § 463-60-537, filed 11/4/04, effective 11/11/04. Statutory Authority: RCW 80.50.040 (1) and (12). 04-21-013, § 463-42-537, filed 10/11/04, effective 11/11/04.)

Section 5.2 Wastewater Permit Application

City of Vancouver
Industrial Information Form

Business Name:	Tesoro Savage Petroleum Terminal, LLC	
Facility Address:	5501 Northwest Lower River Road	
Mailing Address:	6340 South 3000 East, Suite 600	
(if different)	6340 South 3000 East, Suite 600	
Name of Contact:	Kelly Flint	
Title:	Authorized Person	
E-mail:	generalcounsel@savageservices.com	
Phone:	(801) 944-6600	Fax: (801) 944-6554

For Office Use Only:

Eng No.: _____

	Y	N
Possible Classified?		
WRP Staff:		
Date IP App sent:		
Date IP App due:		
IP Staff Assigned:		

Comments:

Nature of business: *(Briefly describe your business AND any activities that produce wastewater.)*

See Attached

Please answer each of the following questions:

1.	Yes ☑	No ☐	Is this business or facility connected to the city's sanitary sewers? *(Are there toilets, sinks or drains in the facility connected to the city sewer system?)*
2.	Yes ☑	No ☐	Does this business or facility discharge ANYTHING OTHER THAN domestic - toilet and sink - wastewater to city sanitary sewers? (*Will process industrial or commercial wastewater be sent to floor drains, batch or process drains, and then discharged to the city sanitary sewers?)* ***If yes, please check one of the following estimates.*** *(Shown below in gallons per day.)*
			Estimated process wastewater discharges: ☐ 0-99 ☐ 100-999 ☐ 1000-3999 ☑ >4000 GPD
3	Yes ☑	No ☐	Does this business have shop or facility floor drains, other than those in restrooms?
4.	Yes ☑	No ☐	Does this business store chemicals or petroleum products in containers of more than 5 gallons? ***If yes, provide information below on materials stored***. *(Attach and use extra page if needed.)*

Chemical or Active Ingredient	Brand Name	Purpose	Container Size, gallons	Estimated Amounts On Site Avg., gallons.	Max., gallons
See Attached					

5.	Yes ☑	No ☐	Does this facility perform on-site vehicle maintenance or vehicle/equipment washing?

Please fax the completed, signed form to (360) 487-7139 or mail to Industrial Pretreatment, City of Vancouver Engineering Services, PO Box 1995, Vancouver, WA 98668. If you have questions or need help completing this form, contact the City of Vancouver's Industrial Pretreatment or Water Protection divisions at (360)487-7130.

CERTIFICATION STATEMENT:

I certify that the information submitted is, to the best of my knowledge and belief, true and accurate.

Signature _____ Date _____

Kelly Flint — Printed Name

Authorized Person — Title

DEPARTMENT OF ECOLOGY
State of Washington

Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to a Publicly-Owned Treatment Works (POTW)

This application is for a state waste discharge permit for a discharge of industrial wastewater to a publicly-owned treatment works (POTW) as required by Chapter 90.48 RCW and Chapter 173-216 WAC. It is designed to provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, and the flow characteristics of the discharge.

Ecology may request additional information to clarify the conditions of this discharge. The applicant should reference information previously submitted to Ecology that applies to this application in the appropriate section.

SECTION A. GENERAL INFORMATION

1. Applicant Name: Tesoro Savage Petroleum Terminal LLC

2. Facility Name: Tesoro Savage Vancouver Energy Distribution Terminal
(if different from Applicant)

3. Applicant Mail Address: 6340 South 3000 East, Suite 600
Street

Salt Lake City, UT — 84121
City/State — Zip

4. Facility Location Address: 5501 NW Lower River Road
(if different from 3 above) Street

Vancouver, WA — 98660
City/State — Zip

5. UBI No. 603308951

Sometimes called a registration, tax, "C," or resale number, the Unified Business Identifier (UBI) number is a nine-digit number used to identify persons engaging in business activities. The number is assigned when a person completes a Master Business Application to register with or obtain a license from state agencies. The Departments of Revenue, Licensing, Employment Security, Labor and Industries, and the Corporations Division of the Secretary of State are among the state agencies participating in the UBI program.

6. Latitude/longitude of the facility as decimal degrees (NAD83/WGS84):

45.651778 / -122.731131

FOR OFFICE USE ONLY	Check One:	New/Renewal ☐	Modification ☐
Date Application Received ____	Date Fee Paid ____	Application/ Permit No. ____	Date Application Accepted ____

7. Person to contact who is familiar with the information contained in this application:

Kelly Flint	Authorized Person
Name	Title
(801) 944-6600	(801) 944-6554
Telephone number	Fax number

8. 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: 7/31/2015

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.

		Authorized Person
Signature*	Date	Title

Kelly Flint
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 to your organization, the person who makes budget decisions for this facility must sign the application.

The application signatory may delegate signature authority for submittals required by the permit, such as monthly reports, to a suitable employee. You can delegate this authority to a qualified individual or to a position, which you expect to fill with a qualified individual. If you wish to delegate signature authority, please complete the following:

Signature of delegated employee	Date	Title or function at the facility

Printed name

SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities, at this facility. Provide the applicable Standard Industrial Category (SIC) and the North American Industry Classification System (NAICS) Code(s) for each activity (see *North American Industrial Classification System,* 2007 ed.). You can find the 1997 NAICS codes and the corresponding 1987 Standard Industry Category (SIC) codes at (http://www.census.gov/epcd/naics/frames3.htm).

Description: The Tesoro Savage Vancouver Energy Distribution Terminal will transfer crude oil transported to the facility by rail into storage tanks and onto vessels for shipment to West Coast refineries. There is no processing of raw materials at the proposed facility. Crude oil will be transferred and stored on stie. Boiler plants will be utilized to heat incoming crude and to maintain crude temperatures during stroage prior to being transferred onto the shipping vessels. Incoming City of Vancouver water supply will be treated to inhibit corrosion and sediment buildup in the steam lines. The West Boiler plant wastewater will be pumped and combined with domestic sewage from the Administrative and Support Buildings prior to discharge to the existing sanitary sewer (Waste Stream No. 1). The Rail Offloading area will have containment pans and equipment/part washing capabilities. Waste collected from these operations will be collected and pumped to holding tanks and hauled off site (Waste Stream No. 2). Boiler plant wastewater, restroom facility, fire pump cooling water and rainwater collected in the pump basin located at the Storage area will be discharged to an existing sanitary sewer (Waste Streamt No. 3). Portable toilet facilities will be installed at the Marine Terminal and wastewater will be hauled off (Waste Stream No. 4). The average wastewater stream from the facilitiy will be aprpoximately 17 gpm. Industrial SIC and NAICS codes for this facility are SIC 5171 and NAICS 422710: "Petroleum Bulk Station & Terminal."

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

Type	RAW MATERIALS	Quantity
Grapes (Example)		*1,000 tons per year*
Crude Oil		360,000 barrels per day

Type	PRODUCTS	Quantity
Grape Juice(Example)		*300,000 gallons per year*
N/A		N/A

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
West Boiler and Administrative and Support Buildings	Waste Stream No. 1	001	B
Rail Offloading building, including containment pans, fire pump cooling and equipment/part washdown	Waste Stream No. 2	002	B
Storage Area Boiler, including restroom, fire pump cooling, and pump basin	Waste Stream No. 3	003	B
Marine Terminal portable toilets	Waste Stream No. 4	004	B

2. On a separate sheet, produce a schematic drawing showing production processes, water flow through the facility, wastewater treatment devices and waste streams as named above. The drawing should indicate the source of intake water and show the operations contributing wastewater to the effluent. The treatment units should be labeled. Construct a water balance by showing average flows between intakes, operations, treatment units, and points of discharge to the POTW. (*See the example on page 16 of this application form.)*

3. What is the maximum daily wastewater discharge flow? 24,000 gallons/day

   What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 36,000 gallons/day

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

Necessary wastewater pretreatment will be conducted on site for all process flows discharging to municipal sanitary sewer to ensure effllluent limits meet the discharge limits specified in Vancouver Municipal Code Pretreatment Ordinaance 14.010.000.

Preliminary design for the boiler plants indicates that cooling water will be necessary to reduce boiler blowdown temperatures and pH adjustment may additionally be necessary. Waste Stream No. 3 includes a sump pump located within the crude transfer pump pit at the Tank Farm and discharge cooling water from the tank farm fire pump; therefore, an oil/water separator is additionally proposed at this facility. Domestic strength sewage from the onsite restroom facilities will not receive pretreatment.

Monitoring manholes will be provided at each santiary sewer connection from the project site to public sewer. Monitoring will be conducted to confirm that the waste stream meets the requirements of the City's pretreatment ordinance.

5. If production processes are subject to seasonal variations, provide the following information. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper flow unit by checking one of the following boxes:

☐ gallons per day ☐ gallons per month ☐ million gallons per month

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? 24

How many days a week does this facility typically operate? 7

How many weeks per year does this facility typically operate? 52

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: See Attachement C.7

8. Some types of facilities are required to have spill or waste control plans. Does this facility have:		Yes	No
a.	A spill prevention, control, and countermeasure plan (40 CFR 112)?	☒	☐
b.	An Oil Spill Contingency Plan (chapter 173-182 WAC)?	☒	☐
c.	An emergency response plan (per WAC 173-303-350)?	☐	☒
d.	A runoff, spillage, or leak control plan (per WAC 173-216-110(f))?	☒	☐
e.	Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: WA Energy Facility Site Evaluation Council	☒	☐
f.	A solid waste control plan?	☐	☒
g.	A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))?	☐	☒

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

☒ ☐ Public System (Specify) City of Vancouver

☐ ☐ Private Well ☐ Surface Water

a. Water Right Permit Number: N/A

b. Legal Description of Water Source

N/A ¼S, N/A ¼E, N/A , Section, N/A TWN, N/A R

2. Potable water use

a. Indicate total water use

Gallons per day (average) 60,900

Gallons per day (maximum) 87,200

b. Is water metered?

☒ YES ☐ NO

SECTION E. WASTEWATER INFORMATION

1. How are the water intake and effluent flows measured?

   Intake: Public water meter

   Effluent Not measured

2. Describe the collection method for the samples analyzed below. (*i.e.*, grab, 24-hour composite). Applicants must collect grab samples (not composites) for analysis of pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform (including E. coli), and Enterococci (previously known as fecal streptococcus at § 122.26 (d)(2)(iii)(A)(3)),or volatile organics.

   Effluent sampling if required by permit will be collected using the grab sample method for the required analysis, including pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform, Enterococci, and volitile organics.

3. Has the effluent been analyzed for any other parameters than those identified in question E.4.? ☒ YES ☐ NO
   If yes, attach results and label as attachment E.4. This data must clearly show the date, method and location of sampling. *(Note: Ecology may require additional testing.)*

4. Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters with an "X" in the left column. If you obtain the application from the internet, contact Ecology's regional office to see if testing for a subset of these parameters is permissible. All analyses (except pH) must be conducted by a laboratory registered or accredited by Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for those parameters that are routinely measured. For parameters measured only for this application, place the values under "Maximum." Report the values with units as specified in the parameter name or in the detection level.

   The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table unless Ecology approves an alternate method or the method used produces measurable results in the sample and EPA has listed it as an EPA approved method in 40 CFR Part 136. If the Permittee uses an alternative method as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

X	Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19th,20th edition or EPA	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
	BOD (5 day)					SM 5210 B	/2 mg/l
	COD					SM 5220 D	/10 mg/l
	Total suspended solids					SM 2540 D	/5 mg/l
	Fixed Dissolved Solids					SM 2540 E	
	Total dissolved solids					SM 2540 C	
X	Conductivity (micromhos/cm)	1000 mmhos	1200 mmhos			SM 2510 B	
	Ammonia-N as N					SM 4500-NH_3 C	/0.3 mg/L
X	pH	8	10.2			SM 4500-H	0.1 standard units
	Fecal coliform (organisms/100 mL)					SM 9221 E or 9222 D	
	Total coliform (organisms/100 mL)					SM 9221 B or 9222 B	
	Dissolved oxygen					SM 4500-O C/G	
X	Nitrate + nitrite-N as N	<0.52 mg/L	<1 mg/L			SM 4500-NO_3 E	100 µg/L
	Total kjeldahl N as N					SM 4500-N_{org} C/E/FG	300 µg/l
	Ortho-phosphate-P as P					SM 4500-P E/F	10 µg/l
	Total-phosphorous-P as P					SM 4500-P E/P/F	10 µg/l
	Total Oil & grease					EPA 1664A	1.4/5 mg/l
	NWTPH - Dx					Ecology NWTPH Dx	250/250 µg/l
	NWTPH - Gx					Ecology NWTPH Gx	250/250 µg/l
X	Calcium	0.5 mg/L	125 mg/L			EPA 200.7	10 µg/l
X	Chloride	9.3 mg/L	6000 mg/L			SM 4500-Cl C	0.15 µg/l
	Fluoride					SM 4500-F E	.025/0.1 mg/l
	Magnesium					EPA 200.7	10/50 µg/l
	Potassium					EPA 200.7	700/ µg/l
X	Sodium	5880 mg/L	6000 mg/L			EPA 200.7	29/ µg/l
X	Sulfate	0.72 mg/L	15 mg/L			SM 4500-SO_4 C/D	/200 µg/l
	Arsenic(total)					EPA 200.8	0.1/0.5 µg/l

X	Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19th,20th edition or EPA	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
X	Barium (total)		<0.4 mg/L			EPA 200.8	0.5/2 µg/l
X	Cadmium (total)		<0.04 mg/L			EPA 200.8	.05/.25 µg/l
X	Chromium (total)		<0.01 mg/L			EPA 200.8	0.2/1 µg/l
X	Copper (total)	0.2 mg/L	4 mg/L			EPA 200.8	0.4/2 µg/l
X	Lead (total)	<0.2 mg/L	<0.2 mg/L			EPA 200.8	0.1/.5 µg/l
	Mercury (total) pg/L					EPA 1631E	0.2/0.5 pg/l
X	Molybdenum(total)	<0.1 mg/L	<0.1 mg/L			EPA 200.8	0.1/0.5 µg/l
X	Nickel(total)	<1 mg/L	<1 mg/L			EPA 200.8	0.1/0.5 µg/l
	Selenium (total)					EPA 200.8	1/1 µg/l
	Silver (total)					EPA 200.8	.04/.2 µg/l
x	Zinc (total)	0.2 mg/L	0.2 mg/L			EPA 200.8	0.5/2.5 µg/l

6. Does this facility use any of the following chemicals as raw materials or produce them as part of the manufacturing process, or are they present in the wastewater? ☐ YES ☒ NO

(*The number in the column next to the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.*)

If yes, specify how the chemical is used and the quantity used or produced:

METALS, CYANIDE & TOTAL PHENOLS			
Antimony, Total	7440-36-0	Nickel, Total	7440-02-0
Arsenic, Total	7440-38-2	Selenium, Total	7782-49-2
Beryllium, Total	7440-41-7	Silver, Total	7440-22-4
Cadmium, Total	7440-43-9	Thallium, Total	7440-28-0
Chromium (hex) dissolved	18540-29-9	Zinc, Total	7440-66-6
Chromium, Total	7440-47-3		
Copper, Total	7440-50-8	Cyanide, Total	57-12-5
Lead, Total	7439-92-1	Cyanide, Weak Acid Dissociable	
Mercury, Total	7439-97-6)	Phenols, Total	

PESTICIDES			
Aldrin	309-00-2	Endrin	72-20-8
alpha-BHC	319-84-6	Endrin Aldehyde	7421-93-4
beta-BHC	319-85-7	Heptachlor	76-44-8
gamma-BHC	58-89-9	Heptachlor Epoxide	1024-57-3
delta-BHC	319-86-8	PCB-1242	53469-21-9
Chlordane	57-74-9	PCB-1254	11097-69-1
4,4'-DDT	50-29-3	PCB-1221	11104-28-2
4,4'-DDE	72-55-9	PCB-1232	11141-16-5
4,4' DDD	72-54-8	PCB-1248	12672-29-6
Dieldrin	60-57-1	PCB-1260	11096-82-5
alpha-Endosulfan	959-98-8	PCB-1016	12674-11-2
beta-Endosulfan	33213-65-9	Toxaphene	8001-35-2
Endosulfan Sulfate	1031-07-8		

VOLATILE COMPOUNDS			
Acrolein	107-02-8		
Acrylonitrile	107-13-1	1,1-Dichloroethylene	75-35-4
Benzene	71-43-2	1,2-Dichloropropane	78-87-5
Bromoform	75-25-2	1,3-dichloropropene (mixed isomers) (1,2-dichloropropylene)	542-75-6
Carbon tetrachloride	56-23-5	Ethylbenzene	100-41-4
Chlorobenzene	108-90-7	Methyl bromide (Bromomethane)	74-83-9
Chloroethane	75-00-3	Methyl chloride (Chloromethane)	74-87-3
2-Chloroethylvinyl Ether	110-75-8	Methylene chloride)	75-09-2
Chloroform	67-66-3	1,1,2,2-Tetrachloroethane	79-34-5
Dibromochloromethane	124-48-1	Tetrachloroethylene	127-18-4
1,2-Dichlorobenzene	95-50-1	Toluene (108-88-3)	
1,3-Dichlorobenzene	(541-73-1)	1,2-Trans-Dichloroethylene (Ethylene dichloride)	156-60-5
1,4-Dichlorobenzene	106-46-7	1,1,1-Trichloroethane	71-55-6
Dichlorobromomethane	75-27-4	1,1,2-Trichloroethane	79-00-5
1,1-Dichloroethane	75-34-3	Trichloroethylene	79-01-6
1,2-Dichloroethane	107-06-2	Vinyl chloride	75-01-4

ACID COMPOUNDS

2-Chlorophenol	95-57-8	4-nitrophenol	100-02-7
2,4-Dichlorophenol	120-83-2	Parachlorometa cresol (4-chloro-3-methylphenol)	59-50-7
2,4-Dimethylphenol	105-67-9	Pentachlorophenol	87-86-5
4,6-dinitro-o-cresol (2-methyl-4,6,-dinitrophenol)	534-52-1	Phenol	108-95-2
2,4 dinitrophenol	51-28-5	2,4,6-Trichlorophenol	88-06-2
2-Nitrophenol	88-75-5		

BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)			
Acenaphthene	83-32-9	3,3-Dichlorobenzidine	91-94-1
Acenaphthylene	208-96-8	Diethyl phthalate	84-66-2
Anthracene	120-12-7	Dimethyl phthalate	131-11-3
Benzidine	92-87-5	Di-n-butyl phthalate)	84-74-2
Benzyl butyl phthalate	85-68-7	2,4-dinitrotoluene	121-14-2
Benzo(*a*)anthracene	56-55-3	2,6-dinitrotoluene	606-20-2
Benzo(b)fluoranthene (3,4-benzofluoranthene)	205-99-2	Di-n-octyl phthalate	117-84-0
Benzo(j)fluoranthene	**205-82-3**	1,2-Diphenylhydrazine (*as Azobenzene*)	122-66-7
Benzo(k)fluoranthene (11,12-benzofluoranthene)	207-08-9	Fluoranthene	206-44-0
Benzo(r,s,t)pentaphene	**189-55-9**	Fluorene	86-73-7
Benzo(*a*)pyrene	50-32-8	Hexachlorobenzene	118-74-1
Benzo(*ghi*)Perylene	191-24-2	Hexachlorobutadiene	87-68-3
Bis(*2-chloroethoxy*)methane	111-91-1	Hexachlorocyclopentadiene	77-47-4
Bis(*2-chloroethyl*)ether	111-44-4	Hexachloroethane	67-72-1
Bis(*2-chloroisopropyl*)ether	39638-32-9	Indeno(*1,2,3-cd*)Pyrene	193-39-5
Bis(*2-ethylhexyl*)phthalate	117-81-7	Isophorone	78-59-1
4-Bromophenyl phenyl ether	101-55-3	**3-Methyl cholanthrene**	**56-49-5**
2-Chloronaphthalene	91-58-7	Naphthalene	91-20-3
4-Chlorophenyl phenyl ether	7005-72-3	Nitrobenzene	98-95-3
Chrysene	218-01-9	N-Nitrosodimethylamine	62-75-9
Dibenzo (a,j)acridine	**224-42-0**	N-Nitrosodi-n-propylamine	621-64-7
Dibenzo (a,h)acridine	**226-36-8**	N-Nitrosodiphenylamine	86-30-6
Dibenzo(a-*h*)anthracene (1,2,5,6-dibenzanthracene)	53-70-3	**Perylene**	**198-55-0**
Dibenzo(a,e)pyrene	192-65-4	Phenanthrene	85-01-8
Dibenzo(a,h)pyrene	189-64-0	Pyrene	129-00-0
		1,2,4-Trichlorobenzene	120-82-1

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

If yes, specify the material and quantity used:

Generic weed control herbicides may be applied on site to control weed growth around the facilities. Herbicides will be applied in accordance with applicable manufacturer's recommendations and state and local regulations.

8 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 as Attachment E8):*

Additional laboratory analysis is included in Attachment E8.

9. Is the wastewater being discharged, or proposed for discharge, to the POTW designated as a dangerous waste according to the procedures in Chapter 173-303 WAC?

☐ YES ☒ NO ☐ DON'T KNOW

10. If the answer to question 9 above is yes, how did the waste designate as a dangerous waste *(check appropriate box)*?

For Listed and TCLP Characteristic Wastes only, also provide the Dangerous Waste Number(s).

Listed Waste ☐ Dangerous Waste Number(s) _____

Characteristic Wastes Dangerous Waste Number(s) _____

- Ignitable ☐
- Reactive ☐
- Corrosive ☐
- TCLP ☐

State Only Dangerous Wastes Dangerous Waste Number(s) _____

- Toxicity ☐
- Persistent ☐

For questions about waste designation under the *Dangerous Waste Regulations*, Chapter 173-303 WAC, contact Ecology's Hazardous Waste and Toxics Program at:

Northwest Regional Office - Bellevue	(425) 649-7000
Southwest Regional Office - Lacey	(360) 407-6300
Central Regional Office - Yakima	(509) 575-2490
Eastern Regional Office - Spokane	(509) 329-3400

SECTION F. SEWER INFORMATION

1. Is an inspection and sampling manhole or similar structure available on-site? ☒ YES ☐ NO
   If yes, attach a map or hand drawing of the facility that shows the location of these structures (Label as attachment F1 or this may be combined with map in H8, if H8 is applicable to your facility.)

SECTION G. OTHER PERMITS

1. List all environmental control permits or approvals needed for this facility; for example, air emission permits.

The Tesoro Savage Vancouver Engergy Distribution Terminal is required to go through the Washington State Energy Facility Site Evaluation Council (EFSEC) for approval. A comprehensive list of permits/approvals are provided in Part 2, Section 2.23 Pertinent Federal, State and Local Requirements of the Applicaton for Site Certification.

SECTION H. STORMWATER

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 a Washington State Stormwater Industrial Stormwater General Permit? ☐ YES ☒ NO

   If you answered no to both questions above, complete the following questions 2 through 5.

2. Does your facility discharge stormwater: *(Check all that apply)*

   ☒ To storm sewer system *(provide name of storm sewer system operator:* Port of Vancouver

   ☐ Directly to any 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).*

   ☒ ☐ To a Sanitary Sewer

   ☐ Directly to ground waters of Washington State via:

   ☐ ☐ Dry well

   ☐ Drainfield

   ☐ Other

3. 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 (please specify): _____

4. Material handling/management practices

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

☐	Solvents	☐	Hazardous Wastes
☐	Scrap Metal	☐	Acids or Alkalies
☒	Petroleum or Petrochemical Products	☐	Paints/Coatings
☐	Plating Products	☐	Woodtreating Products
☐	Pesticides	☐	Other *(please list)*: _____

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

☒	Oil/Water Separator	☐	Detention Facilities
☒	Containment	☐	Infiltration Basins
☒	Spill Prevention	☒	Operational BMPs
☐	Surface Leachate Collection	☒	Vegetation Management
☒	Overhead Coverage	☐	Other *(please list)*: _____

5. Attach a facility site map showing stormwater drainage/collection areas, disposal areas and discharge points. This may be a hand-drawn map if no other site map is available *(See example on page 16 of this application). Label this as attachment H.5.*

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.

   Liquid wastes from containment pans, fire pump cooling water, and miscellaneous floor drains from the rail car unloading building (Waste Stream #2) will be pumped from the rail offloading building to containment holding tanks located near the Adminstrative and Support Buildings.

   Sludge from the bottom of the storage tanks will be removed and hauled off-site once every 10 years per API Standards.

   Waste flows from portable restroom facilities located at the Marine Terminal (Waste Stream #4) will be hauled off.

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

   Raw materials and products will be stored within the buildings on the site in designated locations. Products being stored, and estimated amounts, are listed in Attachment C.7. No significant waste streams are anticipated to result from the storage of materials.

3. Have you designated the wastes described above according to the applicable procedures of Dangerous Waste Regulations, Chapter 173-303 WAC? ☐ YES ☒ NO

SECTION J. CERTIFICATIONS

1. **Approval by Publicly-Owned Treatment Works [required by WAC 173-216-070(4)(b)]**

I approve of the discharge as described in this application. The applicant is:

(Please check the appropriate box below.)

☐ A Significant Industrial User (see Definitions at the end of this Section)

☒ A Categorical Industrial User

☐ Neither of the above

Name and location of sewer system to which this project will be tributary:

City of Vancouver. Waste Stream #1 (West Boiler and Administrative and Support Buildings) will connect to an existing 18" sewer main located immediately north of the site in NW Old Lower River Road. Waste Stream #3 (Storage Area) will connect to an existing 18" sewer main located immedately south of the site along the Port's rail corridor.

Treatment Works Owner: City of Vancouver

Street: 4500 SE Columbia Way

City/State: Vancouver, WA Zip: 98660

Signature of Treatment Works Authority | Date | Title

Printed Name

2. **Application review by Intermediate Sewer Owner at point of discharge (if applicable)**

I hereby acknowledge that I have reviewed the application for discharge to this sewer system.

Name and location of sewer system to which this project will be tributary:

Sewer System Owner:

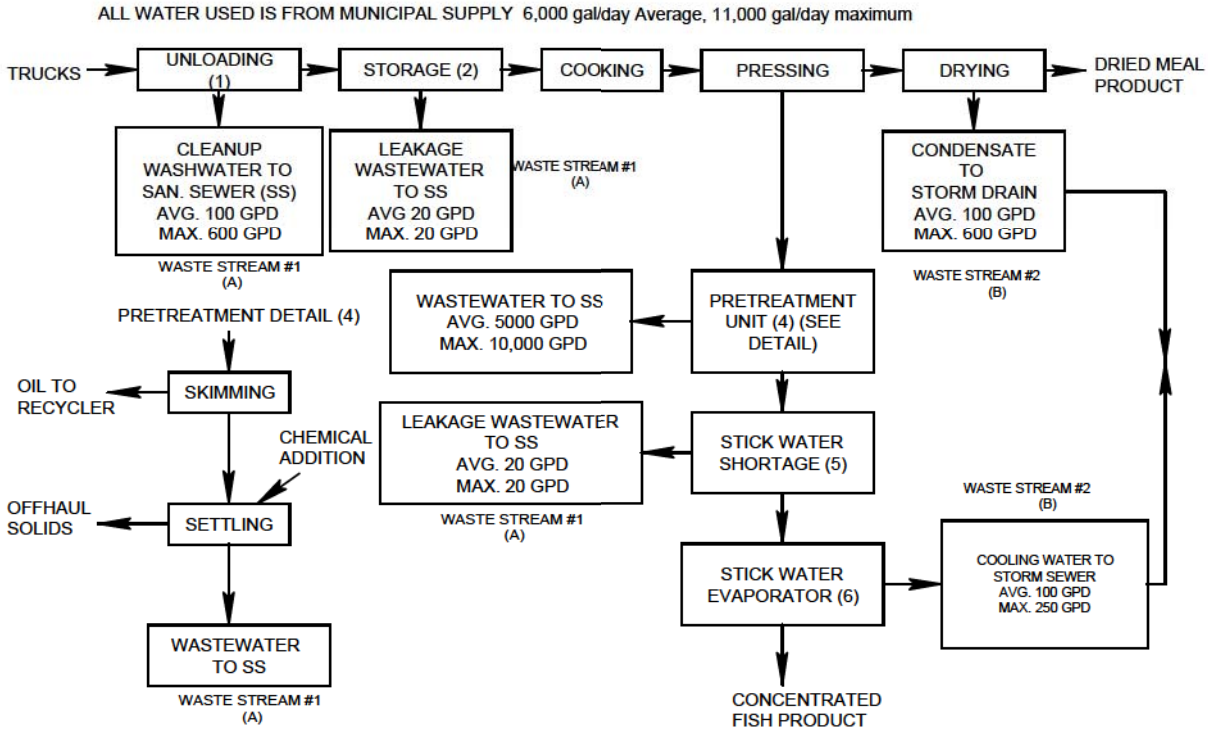
Street:

City/State: Zip:

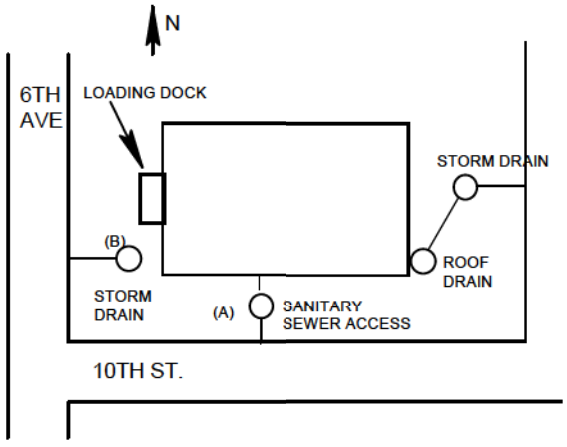
Signature of Sewer System Authority | Date | Title

Printed Name

Example 1 for application section C.2. (SCHEMATIC DIAGRAM)



Example 2 for application section F1 or H8 (FACILITY SITE MAP)



DEFINITIONS

Significant Industrial User (SIU)--

1) All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; and

2) Any other industrial user that: discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, noncontact cooling, and boiler blow-down wastewater); contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

   Upon finding that the industrial user meeting the criteria in paragraph 2, above, has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Control Authority may at any time, on its own initiative or in response to a petition received from an industrial user or POTW, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user is not a significant industrial user.

Control Authority - means the Washington State Department of Ecology in the case of non-delegated POTWs or means the POTW in the case of delegated POTWs.

Categoric Industrial User (CIU): An industrial user subject to national categorical pretreatment standards promulgated by EPA (40 CFR 403.6 and40 CFR parts 405-471).

Summary of Attachments That May be Required for This Application:

(Please check those attachments that are included)

- ☒ C.2. Production schematic flow diagram and water balance
- ☐ C.4. Wastewater treatment improvements
- ☒ C.7. Additional incidental materials
- ☒ E.8. Additional results of effluent testing
- ☒ F.1. Facility site map
- ☒ H.5. Stormwater drainage map

If you need this document in a format for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

C.7 Incidental Materials

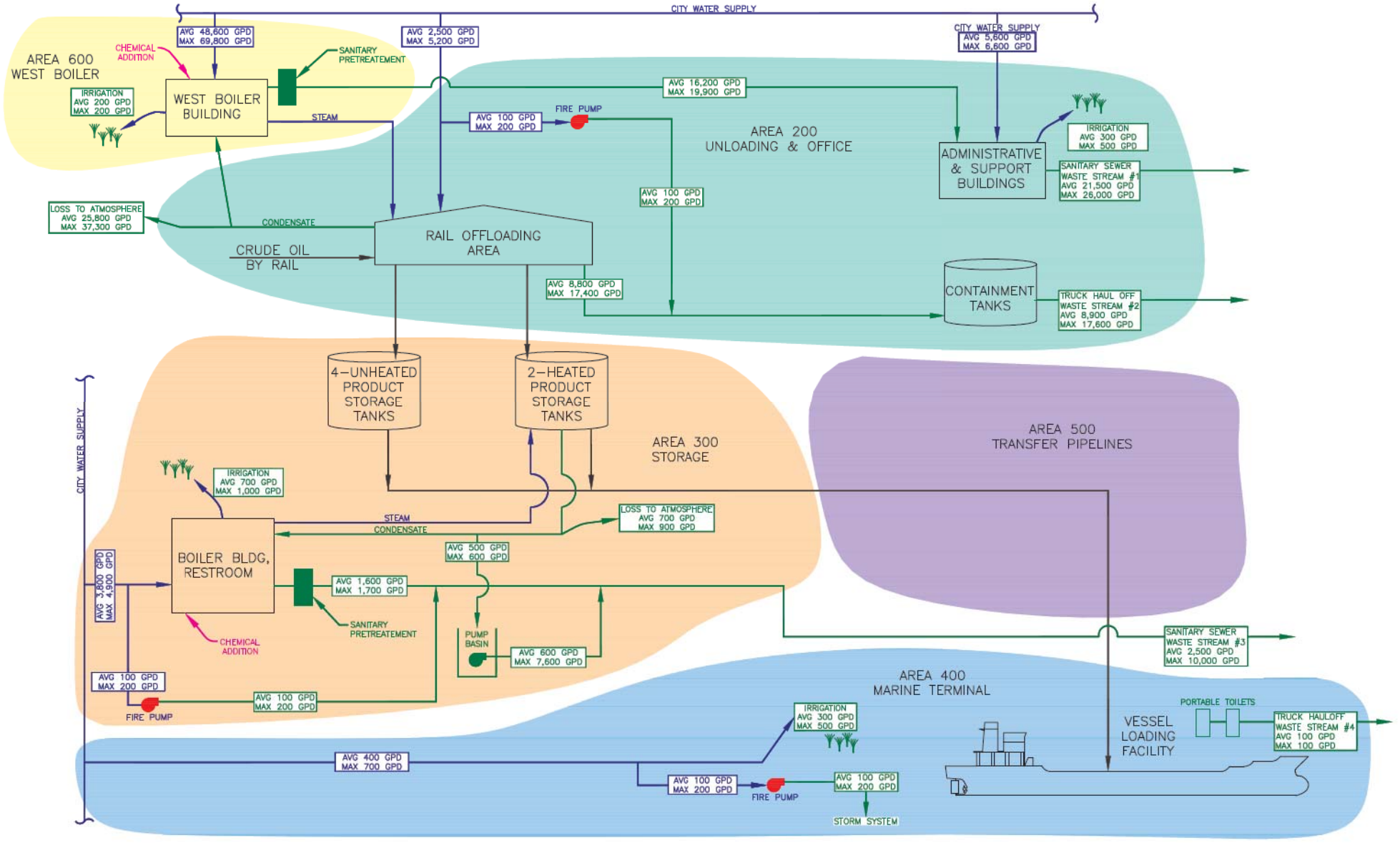
A list of incidental materials that are anticipated to be used and stored on site can be found in Appendix G, Material Safety Data Sheets, along with the manufacturers' data sheets. Note that the manufacturers and trade names may differ after construction, but the types of products and their purposes are expected to be consistent with this list.

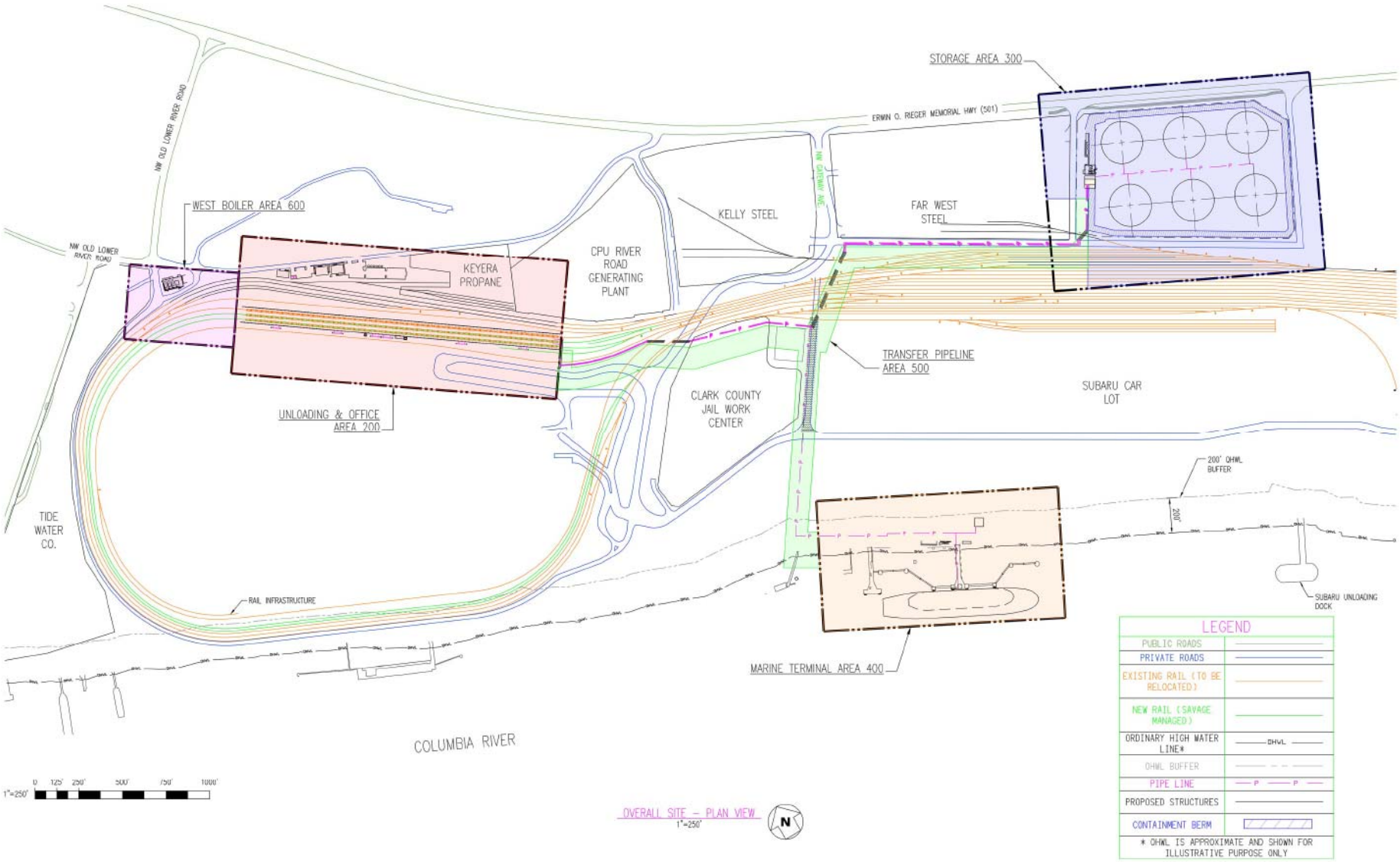
E.8 Additional Results of Effluent Testing

Actual effluent testing has not been completed for this project. NALCO, a local supplier of boiler plant chemical and pretreatment supplier, reviewed the City of Vancouver's domestic water constituents, and conducted an analysis to determine approximate effluent water quality. The results of that analysis are shown below for both the boiler blowdown and water softener backwash.

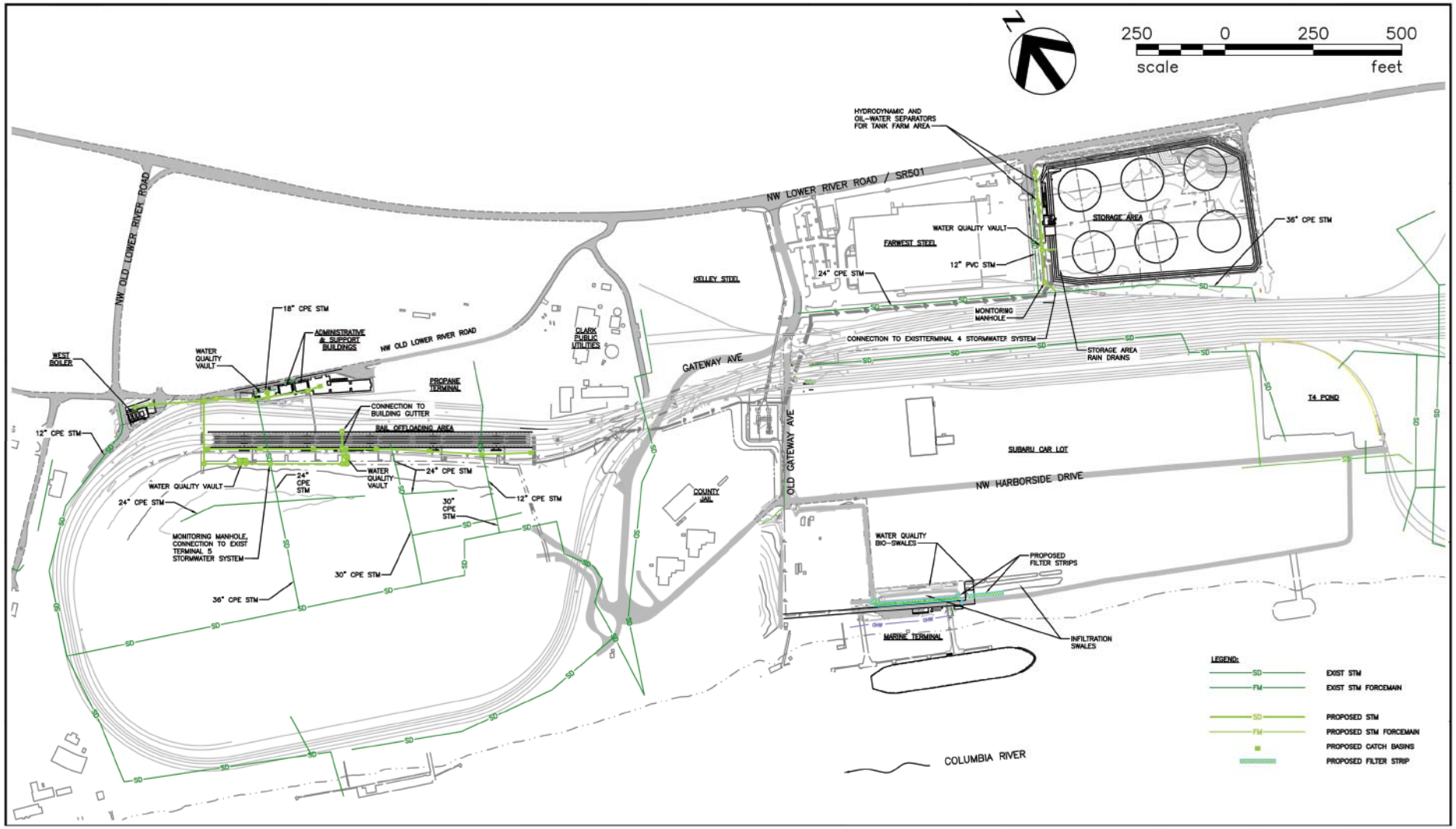
Constituent	Boiler Blowdown	Softener Backwash	Units
pH	10.2	8	
Conductivity	1200	1000	mmhos
Alkalinity	336	120	mg/L
Hardness	14	500	Mg/L as CaCO3
Polyacrylate	250	0	mg/L
Aluminum	<0.1	<0.1	mg/L
Barium	<0.4	<0.4	mg/L
Boron	<0.1	<0.1	mg/L
Bromide	<0.2	<0.2	mg/L
Cadmium	<0.04	<0.04	mg/L
Calcium	0.5	125	mg/L
Chloride	9.3	6000	mg/L
Chromium	<0.01	<0.01	mg/L
Copper	4	0.2	mg/L
Iron	2	0.1	mg/L
Lead	<0.2	<0.2	mg/L
Lithium	<0.01	<0.01	mg/L
Magnesium	3	50	mg/L
Manganese	<0.01	<0.01	mg/L
Molybdenum	<0.1	<0.1	mg/L
Nickel	<1	<1	mg/L
Nitrate	0.8	0.32	mg/L
Nitrite	<0.2	<0.2	mg/L
Phosphorus	1	1	mg/L
Potassium	59	59	mg/L
Silica	150	54	mg/L
Sodium	5880	6000	mg/L
Strontium	0.1	0.1	mg/L
Sulfate	15	0.72	mg/L
Sulfite	40	<0.2	mg/L
Vanadium	<1	<1	mg/L
Zinc	0.2	0.2	mg/L

C.2 PROCESS SCHEMATIC FOR WASTEWATER DISCHARGES





OVERALL SITE – PLAN VIEW
1"=250'



5.2-3. H5 Stormwater Drainage Map

EXHIBIT C

	Hard copies (both volumes)	CDs
To Olympia	48	148
To BA FW	22	27
Total	70	175

The items going to Olympia delivered to:

Stephen Posner
EFSEC
Utilities and Transportation Commission
1300 S. Evergreen Park Dr. S.W.
Olympia, WA 98504-3172
Phone: 360-664-1345
Email: efsec@utc.wa.gov

2-25-14 @ 10:14 AM
(RECEPTIONIST)

Section 5.2 – Wastewater/Stormwater Discharge Permit Applications

WAC 463-60-537
Applications for Permits and Authorizations – Wastewater/stormwater discharge permit applications.

The application for site certification shall include:

(1) A completed National Pollutant Discharge Elimination System (NPDES) permit application, for any proposed discharge to surface waters of the state of Washington, pursuant to the requirements of WAC 463-76-031; or

(2) For any proposed discharge to publicly owned treatment works (POTW) and/or groundwater of the state of Washington, a state waste discharge application;

(3) A notice of intent to be covered under any applicable statewide general permit for storm water discharge.

(04-23-003, recodified as § 463-60-537, filed 11/4/04, effective 11/11/04. Statutory Authority: RCW 80.50.040 (1) and (12). 04-21-013, § 463-42-537, filed 10/11/04, effective 11/11/04.)

Section 5.2 Wastewater Permit Application

City of Vancouver
Industrial Information Form

Business Name:	Tesoro Savage Petroleum Terminal, LLC	
Facility Address:	5501 Northwest Lower River Road	
Mailing Address:	6340 South 3000 East, Suite 600	
(if different)		
Name of Contact:	Kelly Flint	
Title:	Authorized Person	
E-mail:	generalcounsel@savageservices.com	
Phone:	(801) 944-6600	Fax: (801) 944-6554

For Office Use Only:

Eng No.: _____

	Y	N
Possible Classified?		
WRP Staff:		
Date IP App sent:		
Date IP App due:		
IP Staff Assigned:		

Comments:

Nature of business: *(Briefly describe your business AND any activities that produce wastewater.)*

See Attached

Please answer each of the following questions:

1.	Yes ☑	No ☐	Is this business or facility connected to the city's sanitary sewers? *(Are there toilets, sinks or drains in the facility connected to the city sewer system?)*
2.	Yes ☑	No ☐	Does this business or facility discharge ANYTHING OTHER THAN domestic - toilet and sink - wastewater to city sanitary sewers? (*Will process industrial or commercial wastewater be sent to floor drains, batch or process drains, and then discharged to the city sanitary sewers?)* ***If yes, please check one of the following estimates.*** *(Shown below in gallons per day.)*
			Estimated process wastewater discharges: ☐ 0-99 ☐ 100-999 ☐ 1000-3999 ☑ >4000 GPD
3	Yes ☑	No ☐	Does this business have shop or facility floor drains, other than those in restrooms?
4.	Yes ☑	No ☐	Does this business store chemicals or petroleum products in containers of more than 5 gallons? ***If yes, provide information below on materials stored***. *(Attach and use extra page if needed.)*

Chemical or Active Ingredient	Brand Name	Purpose	Container Size, gallons	Estimated Amounts On Site Avg., gallons.	Max., gallons
See Attached					

5.	Yes ☑	No ☐	Does this facility perform on-site vehicle maintenance or vehicle/equipment washing?

Please fax the completed, signed form to (360) 487-7139 or mail to Industrial Pretreatment, City of Vancouver Engineering Services, PO Box 1995, Vancouver, WA 98668. If you have questions or need help completing this form, contact the City of Vancouver's Industrial Pretreatment or Water Protection divisions at (360)487-7130.

CERTIFICATION STATEMENT:

I certify that the information submitted is, to the best of my knowledge and belief, true and accurate.

_____ Signature

_____ Date

Kelly Flint
Printed Name

Authorized Person
Title

DEPARTMENT OF ECOLOGY
State of Washington

Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to a Publicly-Owned Treatment Works (POTW)

This application is for a state waste discharge permit for a discharge of industrial wastewater to a publicly-owned treatment works (POTW) as required by Chapter 90.48 RCW and Chapter 173-216 WAC. It is designed to provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, and the flow characteristics of the discharge.

Ecology may request additional information to clarify the conditions of this discharge. The applicant should reference information previously submitted to Ecology that applies to this application in the appropriate section.

SECTION A. GENERAL INFORMATION

1. Applicant Name: Tesoro Savage Petroleum Terminal LLC

2. Facility Name: Tesoro Savage Vancouver Energy Distribution Terminal
(if different from Applicant)

3. Applicant Mail Address: 6340 South 3000 East, Suite 600
Street

Salt Lake City, UT — 84121
City/State — Zip

4. Facility Location Address: 5501 NW Lower River Road
(if different from 3 above) Street

Vancouver, WA — 98660
City/State — Zip

5. UBI No. 603308951

Sometimes called a registration, tax, "C," or resale number, the Unified Business Identifier (UBI) number is a nine-digit number used to identify persons engaging in business activities. The number is assigned when a person completes a Master Business Application to register with or obtain a license from state agencies. The Departments of Revenue, Licensing, Employment Security, Labor and Industries, and the Corporations Division of the Secretary of State are among the state agencies participating in the UBI program.

6. Latitude/longitude of the facility as decimal degrees (NAD83/WGS84):

45.651778 / -122.731131

FOR OFFICE USE ONLY	Check One:	New/Renewal ☐	Modification ☐
Date Application Received ____	Date Fee Paid ____	Application/ Permit No. ____	Date Application Accepted ____

7. Person to contact who is familiar with the information contained in this application:

Kelly Flint	Authorized Person
Name	Title
(801) 944-6600	(801) 944-6554
Telephone number	Fax number

8. 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: 7/31/2015

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.

		Authorized Person
Signature*	Date	Title

Kelly Flint
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 to your organization, the person who makes budget decisions for this facility must sign the application.

The application signatory may delegate signature authority for submittals required by the permit, such as monthly reports, to a suitable employee. You can delegate this authority to a qualified individual or to a position, which you expect to fill with a qualified individual. If you wish to delegate signature authority, please complete the following:

Signature of delegated employee	Date	Title or function at the facility

Printed name

SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities, at this facility. Provide the applicable Standard Industrial Category (SIC) and the North American Industry Classification System (NAICS) Code(s) for each activity (see *North American Industrial Classification System,* 2007 ed.). You can find the 1997 NAICS codes and the corresponding 1987 Standard Industry Category (SIC) codes at (http://www.census.gov/epcd/naics/frames3.htm).

Description: The Tesoro Savage Vancouver Energy Distribution Terminal will transfer crude oil transported to the facility by rail into storage tanks and onto vessels for shipment to West Coast refineries. There is no processing of raw materials at the proposed facility. Crude oil will be transferred and stored on stie. Boiler plants will be utilized to heat incoming crude and to maintain crude temperatures during stroage prior to being transferred onto the shipping vessels. Incoming City of Vancouver water supply will be treated to inhibit corrosion and sediment buildup in the steam lines. The West Boiler plant wastewater will be pumped and combined with domestic sewage from the Administrative and Support Buildings prior to discharge to the existing sanitary sewer (Waste Stream No. 1). The Rail Offloading area will have containment pans and equipment/part washing capabilities. Waste collected from these operations will be collected and pumped to holding tanks and hauled off site (Waste Stream No. 2). Boiler plant wastewater, restroom facility, fire pump cooling water and rainwater collected in the pump basin located at the Storage area will be discharged to an existing sanitary sewer (Waste Streamt No. 3). Portable toilet facilities will be installed at the Marine Terminal and wastewater will be hauled off (Waste Stream No. 4). The average wastewater stream from the facilitiy will be aprpoximately 17 gpm. Industrial SIC and NAICS codes for this facility are SIC 5171 and NAICS 422710: "Petroleum Bulk Station & Terminal."

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

Type	RAW MATERIALS	Quantity
Grapes (Example)		*1,000 tons per year*
Crude Oil		360,000 barrels per day

Type	PRODUCTS	Quantity
Grape Juice(Example)		*300,000 gallons per year*
N/A		N/A

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
West Boiler and Administrative and Support Buildings	Waste Stream No. 1	001	B
Rail Offloading building, including containment pans, fire pump cooling and equipment/part washdown	Waste Stream No. 2	002	B
Storage Area Boiler, including restroom, fire pump cooling, and pump basin	Waste Stream No. 3	003	B
Marine Terminal portable toilets	Waste Stream No. 4	004	B

2. On a separate sheet, produce a schematic drawing showing production processes, water flow through the facility, wastewater treatment devices and waste streams as named above. The drawing should indicate the source of intake water and show the operations contributing wastewater to the effluent. The treatment units should be labeled. Construct a water balance by showing average flows between intakes, operations, treatment units, and points of discharge to the POTW. (*See the example on page 16 of this application form.)*

3. What is the maximum daily wastewater discharge flow? 24,000 gallons/day

   What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 36,000 gallons/day

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

Necessary wastewater pretreatment will be conducted on site for all process flows discharging to municipal sanitary sewer to ensure effllluent limits meet the discharge limits specified in Vancouver Municipal Code Pretreatment Ordinaance 14.010.000.

Preliminary design for the boiler plants indicates that cooling water will be necessary to reduce boiler blowdown temperatures and pH adjustment may additionally be necessary. Waste Stream No. 3 includes a sump pump located within the crude transfer pump pit at the Tank Farm and discharge cooling water from the tank farm fire pump; therefore, an oil/water separator is additionally proposed at this facility. Domestic strength sewage from the onsite restroom facilities will not receive pretreatment.

Monitoring manholes will be provided at each santiary sewer connection from the project site to public sewer. Monitoring will be conducted to confirm that the waste stream meets the requirements of the City's pretreatment ordinance.

5. If production processes are subject to seasonal variations, provide the following information. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper flow unit by checking one of the following boxes:

☐ gallons per day ☐ gallons per month ☐ million gallons per month

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? 24

How many days a week does this facility typically operate? 7

How many weeks per year does this facility typically operate? 52

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: See Attachement C.7

8. Some types of facilities are required to have spill or waste control plans. Does this facility have:		Yes	No
a.	A spill prevention, control, and countermeasure plan (40 CFR 112)?	☒	☐
b.	An Oil Spill Contingency Plan (chapter 173-182 WAC)?	☒	☐
c.	An emergency response plan (per WAC 173-303-350)?	☐	☒
d.	A runoff, spillage, or leak control plan (per WAC 173-216-110(f))?	☒	☐
e.	Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: WA Energy Facility Site Evaluation Council	☒	☐
f.	A solid waste control plan?	☐	☒
g.	A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))?	☐	☒

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

☒ ☐ Public System (Specify) City of Vancouver

☐ ☐ Private Well ☐ Surface Water

a. Water Right Permit Number: N/A

b. Legal Description of Water Source

N/A ¼S, N/A ¼E, N/A , Section, N/A TWN, N/A R

2. Potable water use

a. Indicate total water use

Gallons per day (average) 60,900

Gallons per day (maximum) 87,200

b. Is water metered?

☒ YES ☐ NO

SECTION E. WASTEWATER INFORMATION

1. How are the water intake and effluent flows measured?

   Intake: Public water meter

   Effluent Not measured

2. Describe the collection method for the samples analyzed below. (*i.e.*, grab, 24-hour composite). Applicants must collect grab samples (not composites) for analysis of pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform (including E. coli), and Enterococci (previously known as fecal streptococcus at § 122.26 (d)(2)(iii)(A)(3)),or volatile organics.

   Effluent sampling if required by permit will be collected using the grab sample method for the required analysis, including pH, temperature, cyanide, total phenols, residual chlorine, oil and grease, fecal coliform, Enterococci, and volitile organics.

3. Has the effluent been analyzed for any other parameters than those identified in question E.4.? ☒ YES ☐ NO
   If yes, attach results and label as attachment E.4. This data must clearly show the date, method and location of sampling. *(Note: Ecology may require additional testing.)*

4. Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters with an "X" in the left column. If you obtain the application from the internet, contact Ecology's regional office to see if testing for a subset of these parameters is permissible. All analyses (except pH) must be conducted by a laboratory registered or accredited by Ecology (WAC 173-216-125). If this is an application for permit renewal, provide data for the last year for those parameters that are routinely measured. For parameters measured only for this application, place the values under "Maximum." Report the values with units as specified in the parameter name or in the detection level.

   The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table unless Ecology approves an alternate method or the method used produces measurable results in the sample and EPA has listed it as an EPA approved method in 40 CFR Part 136. If the Permittee uses an alternative method as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

X	Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19th,20th edition or EPA	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
	BOD (5 day)					SM 5210 B	/2 mg/l
	COD					SM 5220 D	/10 mg/l
	Total suspended solids					SM 2540 D	/5 mg/l
	Fixed Dissolved Solids					SM 2540 E	
	Total dissolved solids					SM 2540 C	
X	Conductivity (micromhos/cm)	1000 mmhos	1200 mmhos			SM 2510 B	
	Ammonia-N as N					SM 4500-NH_3 C	/0.3 mg/L
X	pH	8	10.2			SM 4500-H	0.1 standard units
	Fecal coliform (organisms/100 mL)					SM 9221 E or 9222 D	
	Total coliform (organisms/100 mL)					SM 9221 B or 9222 B	
	Dissolved oxygen					SM 4500-O C/G	
X	Nitrate + nitrite-N as N	<0.52 mg/L	<1 mg/L			SM 4500-NO_3 E	100 µg/L
	Total kjeldahl N as N					SM 4500-N_{org} C/E/FG	300 µg/l
	Ortho-phosphate-P as P					SM 4500-P E/F	10 µg/l
	Total-phosphorous-P as P					SM 4500-P E/P/F	10 µg/l
	Total Oil & grease					EPA 1664A	1.4/5 mg/l
	NWTPH - Dx					Ecology NWTPH Dx	250/250 µg/l
	NWTPH - Gx					Ecology NWTPH Gx	250/250 µg/l
X	Calcium	0.5 mg/L	125 mg/L			EPA 200.7	10 µg/l
X	Chloride	9.3 mg/L	6000 mg/L			SM 4500-Cl C	0.15 µg/l
	Fluoride					SM 4500-F E	.025/0.1 mg/l
	Magnesium					EPA 200.7	10/50 µg/l
	Potassium					EPA 200.7	700/ µg/l
X	Sodium	5880 mg/L	6000 mg/L			EPA 200.7	29/ µg/l
X	Sulfate	0.72 mg/L	15 mg/L			SM 4500-SO_4 C/D	/200 µg/l
	Arsenic(total)					EPA 200.8	0.1/0.5 µg/l

X	Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19th,20th edition or EPA	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
X	Barium (total)		<0.4 mg/L			EPA 200.8	0.5/2 µg/l
X	Cadmium (total)		<0.04 mg/L			EPA 200.8	.05/.25 µg/l
X	Chromium (total)		<0.01 mg/L			EPA 200.8	0.2/1 µg/l
X	Copper (total)	0.2 mg/L	4 mg/L			EPA 200.8	0.4/2 µg/l
X	Lead (total)	<0.2 mg/L	<0.2 mg/L			EPA 200.8	0.1/.5 µg/l
	Mercury (total) pg/L					EPA 1631E	0.2/0.5 pg/l
X	Molybdenum(total)	<0.1 mg/L	<0.1 mg/L			EPA 200.8	0.1/0.5 µg/l
X	Nickel(total)	<1 mg/L	<1 mg/L			EPA 200.8	0.1/0.5 µg/l
	Selenium (total)					EPA 200.8	1/1 µg/l
	Silver (total)					EPA 200.8	.04/.2 µg/l
x	Zinc (total)	0.2 mg/L	0.2 mg/L			EPA 200.8	0.5/2.5 µg/l

6. Does this facility use any of the following chemicals as raw materials or produce them as part of the manufacturing process, or are they present in the wastewater? ☐ YES ☒ NO

(*The number in the column next to the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.*)

If yes, specify how the chemical is used and the quantity used or produced:

METALS, CYANIDE & TOTAL PHENOLS			
Antimony, Total	7440-36-0	Nickel, Total	7440-02-0
Arsenic, Total	7440-38-2	Selenium, Total	7782-49-2
Beryllium, Total	7440-41-7	Silver, Total	7440-22-4
Cadmium, Total	7440-43-9	Thallium, Total	7440-28-0
Chromium (hex) dissolved	18540-29-9	Zinc, Total	7440-66-6
Chromium, Total	7440-47-3		
Copper, Total	7440-50-8	Cyanide, Total	57-12-5
Lead, Total	7439-92-1	Cyanide, Weak Acid Dissociable	
Mercury, Total	7439-97-6)	Phenols, Total	

PESTICIDES			
Aldrin	309-00-2	Endrin	72-20-8
alpha-BHC	319-84-6	Endrin Aldehyde	7421-93-4
beta-BHC	319-85-7	Heptachlor	76-44-8
gamma-BHC	58-89-9	Heptachlor Epoxide	1024-57-3
delta-BHC	319-86-8	PCB-1242	53469-21-9
Chlordane	57-74-9	PCB-1254	11097-69-1
4,4'-DDT	50-29-3	PCB-1221	11104-28-2
4,4'-DDE	72-55-9	PCB-1232	11141-16-5
4,4' DDD	72-54-8	PCB-1248	12672-29-6
Dieldrin	60-57-1	PCB-1260	11096-82-5
alpha-Endosulfan	959-98-8	PCB-1016	12674-11-2
beta-Endosulfan	33213-65-9	Toxaphene	8001-35-2
Endosulfan Sulfate	1031-07-8		

VOLATILE COMPOUNDS			
Acrolein	107-02-8		
Acrylonitrile	107-13-1	1,1-Dichloroethylene	75-35-4
Benzene	71-43-2	1,2-Dichloropropane	78-87-5
Bromoform	75-25-2	1,3-dichloropropene (mixed isomers) (1,2-dichloropropylene)	542-75-6
Carbon tetrachloride	56-23-5	Ethylbenzene	100-41-4
Chlorobenzene	108-90-7	Methyl bromide (Bromomethane)	74-83-9
Chloroethane	75-00-3	Methyl chloride (Chloromethane)	74-87-3
2-Chloroethylvinyl Ether	110-75-8	Methylene chloride)	75-09-2
Chloroform	67-66-3	1,1,2,2-Tetrachloroethane	79-34-5
Dibromochloromethane	124-48-1	Tetrachloroethylene	127-18-4
1,2-Dichlorobenzene	95-50-1	Toluene (108-88-3)	
1,3-Dichlorobenzene	(541-73-1)	1,2-Trans-Dichloroethylene (Ethylene dichloride)	156-60-5
1,4-Dichlorobenzene	106-46-7	1,1,1-Trichloroethane	71-55-6
Dichlorobromomethane	75-27-4	1,1,2-Trichloroethane	79-00-5
1,1-Dichloroethane	75-34-3	Trichloroethylene	79-01-6
1,2-Dichloroethane	107-06-2	Vinyl chloride	75-01-4

ACID COMPOUNDS

2-Chlorophenol	95-57-8	4-nitrophenol	100-02-7
2,4-Dichlorophenol	120-83-2	Parachlorometa cresol (4-chloro-3-methylphenol)	59-50-7
2,4-Dimethylphenol	105-67-9	Pentachlorophenol	87-86-5
4,6-dinitro-o-cresol (2-methyl-4,6,-dinitrophenol)	534-52-1	Phenol	108-95-2
2,4 dinitrophenol	51-28-5	2,4,6-Trichlorophenol	88-06-2
2-Nitrophenol	88-75-5		

BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)			
Acenaphthene	83-32-9	3,3-Dichlorobenzidine	91-94-1
Acenaphthylene	208-96-8	Diethyl phthalate	84-66-2
Anthracene	120-12-7	Dimethyl phthalate	131-11-3
Benzidine	92-87-5	Di-n-butyl phthalate)	84-74-2
Benzyl butyl phthalate	85-68-7	2,4-dinitrotoluene	121-14-2
Benzo(*a*)anthracene	56-55-3	2,6-dinitrotoluene	606-20-2
Benzo(b)fluoranthene (3,4-benzofluoranthene)	205-99-2	Di-n-octyl phthalate	117-84-0
Benzo(j)fluoranthene	**205-82-3**	1,2-Diphenylhydrazine (*as Azobenzene*)	122-66-7
Benzo(k)fluoranthene (11,12-benzofluoranthene)	207-08-9	Fluoranthene	206-44-0
Benzo(r,s,t)pentaphene	**189-55-9**	Fluorene	86-73-7
Benzo(*a*)pyrene	50-32-8	Hexachlorobenzene	118-74-1
Benzo(*ghi*)Perylene	191-24-2	Hexachlorobutadiene	87-68-3
Bis(*2-chloroethoxy*)methane	111-91-1	Hexachlorocyclopentadiene	77-47-4
Bis(*2-chloroethyl*)ether	111-44-4	Hexachloroethane	67-72-1
Bis(*2-chloroisopropyl*)ether	39638-32-9	Indeno(*1,2,3-cd*)Pyrene	193-39-5
Bis(*2-ethylhexyl*)phthalate	117-81-7	Isophorone	78-59-1
4-Bromophenyl phenyl ether	101-55-3	**3-Methyl cholanthrene**	**56-49-5**
2-Chloronaphthalene	91-58-7	Naphthalene	91-20-3
4-Chlorophenyl phenyl ether	7005-72-3	Nitrobenzene	98-95-3
Chrysene	218-01-9	N-Nitrosodimethylamine	62-75-9
Dibenzo (a,j)acridine	**224-42-0**	N-Nitrosodi-n-propylamine	621-64-7
Dibenzo (a,h)acridine	**226-36-8**	N-Nitrosodiphenylamine	86-30-6
Dibenzo(a-*h*)anthracene (1,2,5,6-dibenzanthracene)	53-70-3	**Perylene**	**198-55-0**
Dibenzo(a,e)pyrene	192-65-4	Phenanthrene	85-01-8
Dibenzo(a,h)pyrene	189-64-0	Pyrene	129-00-0
		1,2,4-Trichlorobenzene	120-82-1

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

If yes, specify the material and quantity used:

Generic weed control herbicides may be applied on site to control weed growth around the facilities. Herbicides will be applied in accordance with applicable manufacturer's recommendations and state and local regulations.

8 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 as Attachment E8):*

Additional laboratory analysis is included in Attachment E8.

9. Is the wastewater being discharged, or proposed for discharge, to the POTW designated as a dangerous waste according to the procedures in Chapter 173-303 WAC?

☐ YES ☒ NO ☐ DON'T KNOW

10. If the answer to question 9 above is yes, how did the waste designate as a dangerous waste *(check appropriate box)*?

For Listed and TCLP Characteristic Wastes only, also provide the Dangerous Waste Number(s).

Listed Waste ☐ Dangerous Waste Number(s) _____

Characteristic Wastes Dangerous Waste Number(s) _____

- Ignitable ☐
- Reactive ☐
- Corrosive ☐
- TCLP ☐

State Only Dangerous Wastes Dangerous Waste Number(s) _____

- Toxicity ☐
- Persistent ☐

For questions about waste designation under the *Dangerous Waste Regulations*, Chapter 173-303 WAC, contact Ecology's Hazardous Waste and Toxics Program at:

Northwest Regional Office - Bellevue	(425) 649-7000
Southwest Regional Office - Lacey	(360) 407-6300
Central Regional Office - Yakima	(509) 575-2490
Eastern Regional Office - Spokane	(509) 329-3400

SECTION F. SEWER INFORMATION

1. Is an inspection and sampling manhole or similar structure available on-site? ☒ YES ☐ NO
   If yes, attach a map or hand drawing of the facility that shows the location of these structures (Label as attachment F1 or this may be combined with map in H8, if H8 is applicable to your facility.)

SECTION G. OTHER PERMITS

1. List all environmental control permits or approvals needed for this facility; for example, air emission permits.

The Tesoro Savage Vancouver Engergy Distribution Terminal is required to go through the Washington State Energy Facility Site Evaluation Council (EFSEC) for approval. A comprehensive list of permits/approvals are provided in Part 2, Section 2.23 Pertinent Federal, State and Local Requirements of the Applicaton for Site Certification.

SECTION H. STORMWATER

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 a Washington State Stormwater Industrial Stormwater General Permit? ☐ YES ☒ NO

   If you answered no to both questions above, complete the following questions 2 through 5.

2. Does your facility discharge stormwater: *(Check all that apply)*

   ☒ To storm sewer system *(provide name of storm sewer system operator:* Port of Vancouver

   ☐ Directly to any 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).*

   ☒ ☐ To a Sanitary Sewer

   ☐ Directly to ground waters of Washington State via:

   ☐ ☐ Dry well

   ☐ Drainfield

   ☐ Other

3. 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 (please specify): _____

4. Material handling/management practices

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

☐	Solvents	☐	Hazardous Wastes
☐	Scrap Metal	☐	Acids or Alkalies
☒	Petroleum or Petrochemical Products	☐	Paints/Coatings
☐	Plating Products	☐	Woodtreating Products
☐	Pesticides	☐	Other *(please list)*: _____

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

☒	Oil/Water Separator	☐	Detention Facilities
☒	Containment	☐	Infiltration Basins
☒	Spill Prevention	☒	Operational BMPs
☐	Surface Leachate Collection	☒	Vegetation Management
☒	Overhead Coverage	☐	Other *(please list)*: _____

5. Attach a facility site map showing stormwater drainage/collection areas, disposal areas and discharge points. This may be a hand-drawn map if no other site map is available *(See example on page 16 of this application). Label this as attachment H.5.*

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.

   Liquid wastes from containment pans, fire pump cooling water, and miscellaneous floor drains from the rail car unloading building (Waste Stream #2) will be pumped from the rail offloading building to containment holding tanks located near the Adminstrative and Support Buildings.

   Sludge from the bottom of the storage tanks will be removed and hauled off-site once every 10 years per API Standards.

   Waste flows from portable restroom facilities located at the Marine Terminal (Waste Stream #4) will be hauled off.

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

   Raw materials and products will be stored within the buildings on the site in designated locations. Products being stored, and estimated amounts, are listed in Attachment C.7. No significant waste streams are anticipated to result from the storage of materials.

3. Have you designated the wastes described above according to the applicable procedures of Dangerous Waste Regulations, Chapter 173-303 WAC? ☐ YES ☒ NO

SECTION J. CERTIFICATIONS

1. **Approval by Publicly-Owned Treatment Works [required by WAC 173-216-070(4)(b)]**

I approve of the discharge as described in this application. The applicant is:

(Please check the appropriate box below.)

☐ A Significant Industrial User (see Definitions at the end of this Section)

☒ A Categorical Industrial User

☐ Neither of the above

Name and location of sewer system to which this project will be tributary:

City of Vancouver. Waste Stream #1 (West Boiler and Administrative and Support Buildings) will connect to an existing 18" sewer main located immediately north of the site in NW Old Lower River Road. Waste Stream #3 (Storage Area) will connect to an existing 18" sewer main located immedately south of the site along the Port's rail corridor.

Treatment Works Owner: City of Vancouver

Street: 4500 SE Columbia Way

City/State: Vancouver, WA Zip: 98660

Signature of Treatment Works Authority | Date | Title

Printed Name

2. **Application review by Intermediate Sewer Owner at point of discharge (if applicable)**

I hereby acknowledge that I have reviewed the application for discharge to this sewer system.

Name and location of sewer system to which this project will be tributary:

Sewer System Owner:

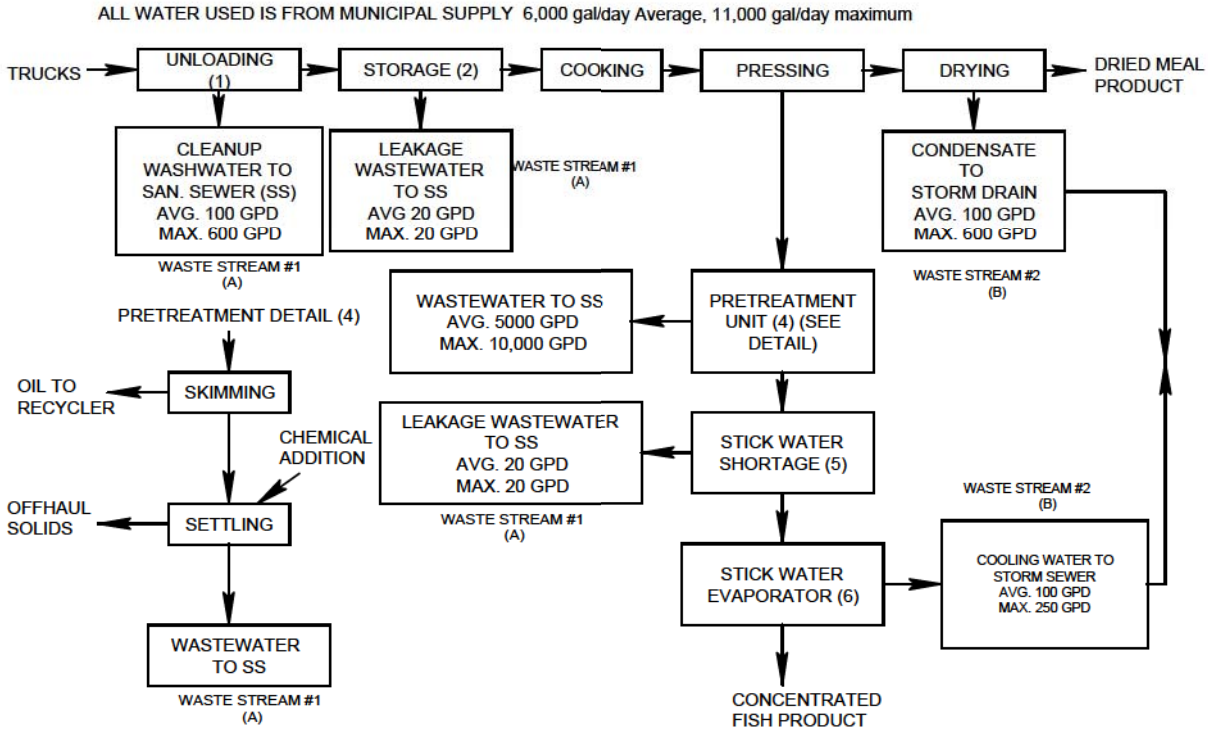
Street:

City/State: Zip:

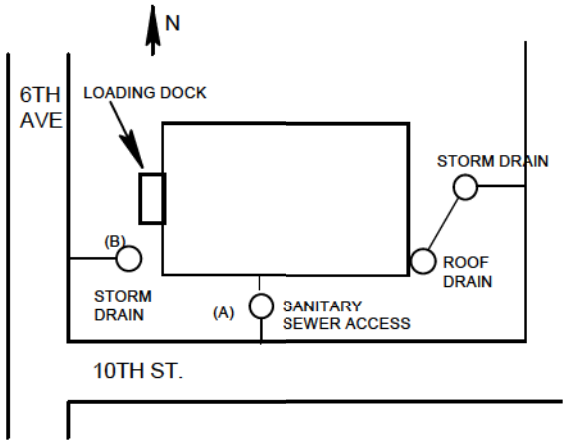
Signature of Sewer System Authority | Date | Title

Printed Name

Example 1 for application section C.2. (SCHEMATIC DIAGRAM)



Example 2 for application section F1 or H8 (FACILITY SITE MAP)



DEFINITIONS

Significant Industrial User (SIU)--

1) All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N; and

2) Any other industrial user that: discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, noncontact cooling, and boiler blow-down wastewater); contributes a process wastestream that makes up 5 percent or more of the average dry weather hydraulic or organic capacity of the POTW treatment plant; or is designated as such by the Control Authority on the basis that the industrial user has a reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement (in accordance with 40 CFR 403.8(f)(6)).

   Upon finding that the industrial user meeting the criteria in paragraph 2, above, has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Control Authority may at any time, on its own initiative or in response to a petition received from an industrial user or POTW, and in accordance with 40 CFR 403.8(f)(6), determine that such industrial user is not a significant industrial user.

Control Authority - means the Washington State Department of Ecology in the case of non-delegated POTWs or means the POTW in the case of delegated POTWs.

Categoric Industrial User (CIU): An industrial user subject to national categorical pretreatment standards promulgated by EPA (40 CFR 403.6 and40 CFR parts 405-471).

Summary of Attachments That May be Required for This Application:

(Please check those attachments that are included)

- ☒ C.2. Production schematic flow diagram and water balance
- ☐ C.4. Wastewater treatment improvements
- ☒ C.7. Additional incidental materials
- ☒ E.8. Additional results of effluent testing
- ☒ F.1. Facility site map
- ☒ H.5. Stormwater drainage map

If you need this document in a format for the visually impaired, call the Water Quality Program at 360-407-6600. Persons with hearing loss can call 711 for Washington Relay Service. Persons with a speech disability can call 877-833-6341.

C.7 Incidental Materials

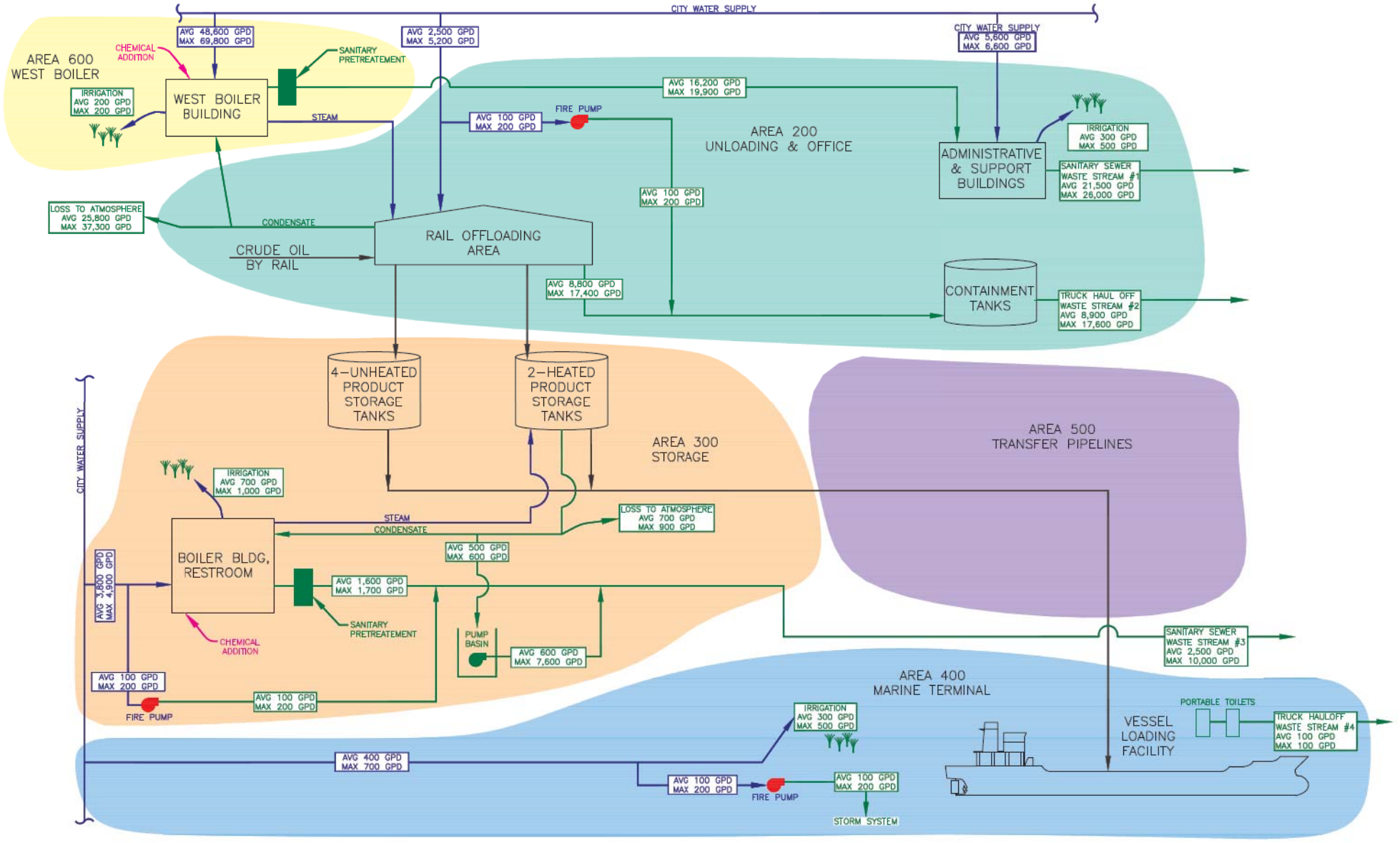
A list of incidental materials that are anticipated to be used and stored on site can be found in Appendix G, Material Safety Data Sheets, along with the manufacturers' data sheets. Note that the manufacturers and trade names may differ after construction, but the types of products and their purposes are expected to be consistent with this list.

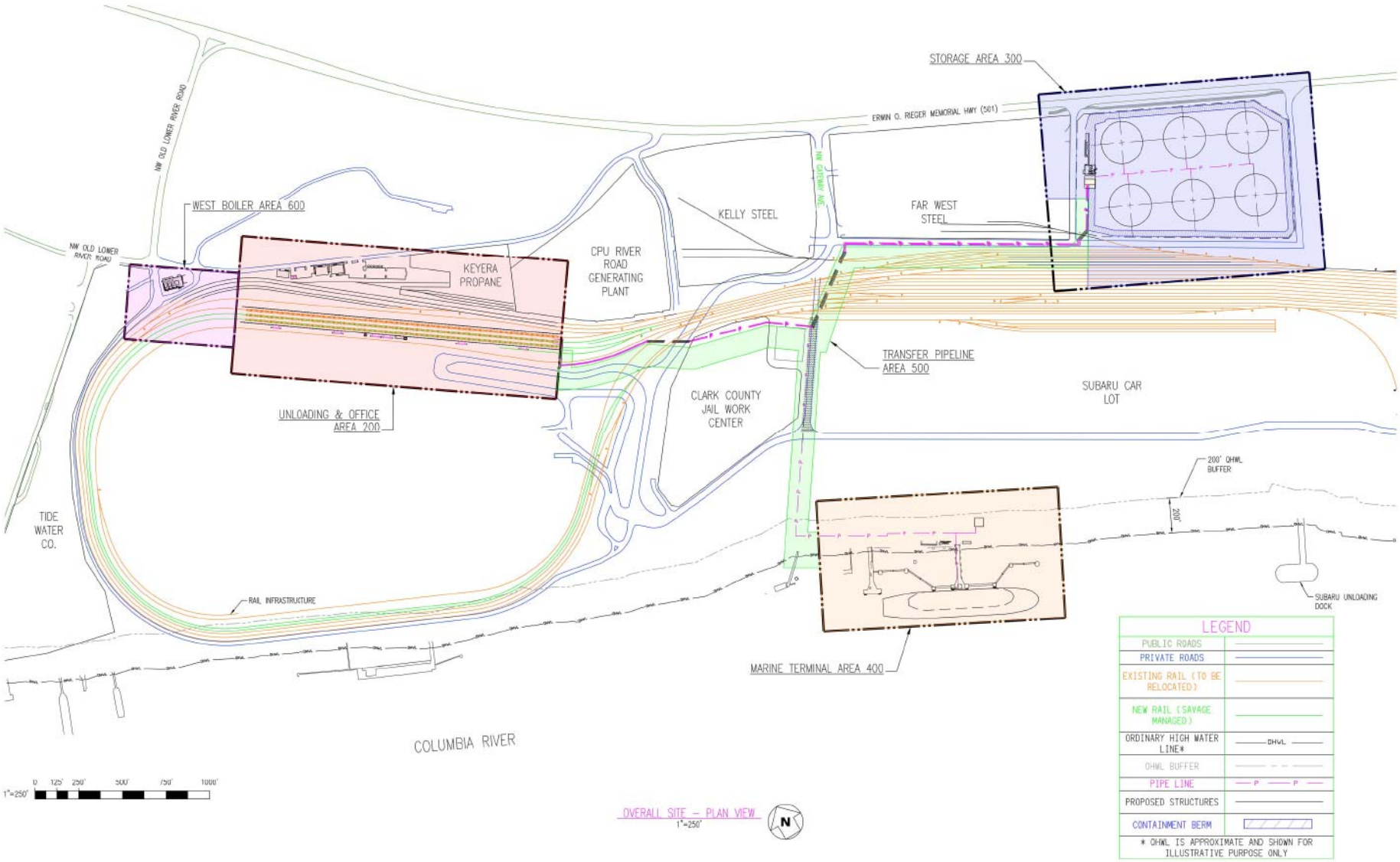
E.8 Additional Results of Effluent Testing

Actual effluent testing has not been completed for this project. NALCO, a local supplier of boiler plant chemical and pretreatment supplier, reviewed the City of Vancouver's domestic water constituents, and conducted an analysis to determine approximate effluent water quality. The results of that analysis are shown below for both the boiler blowdown and water softener backwash.

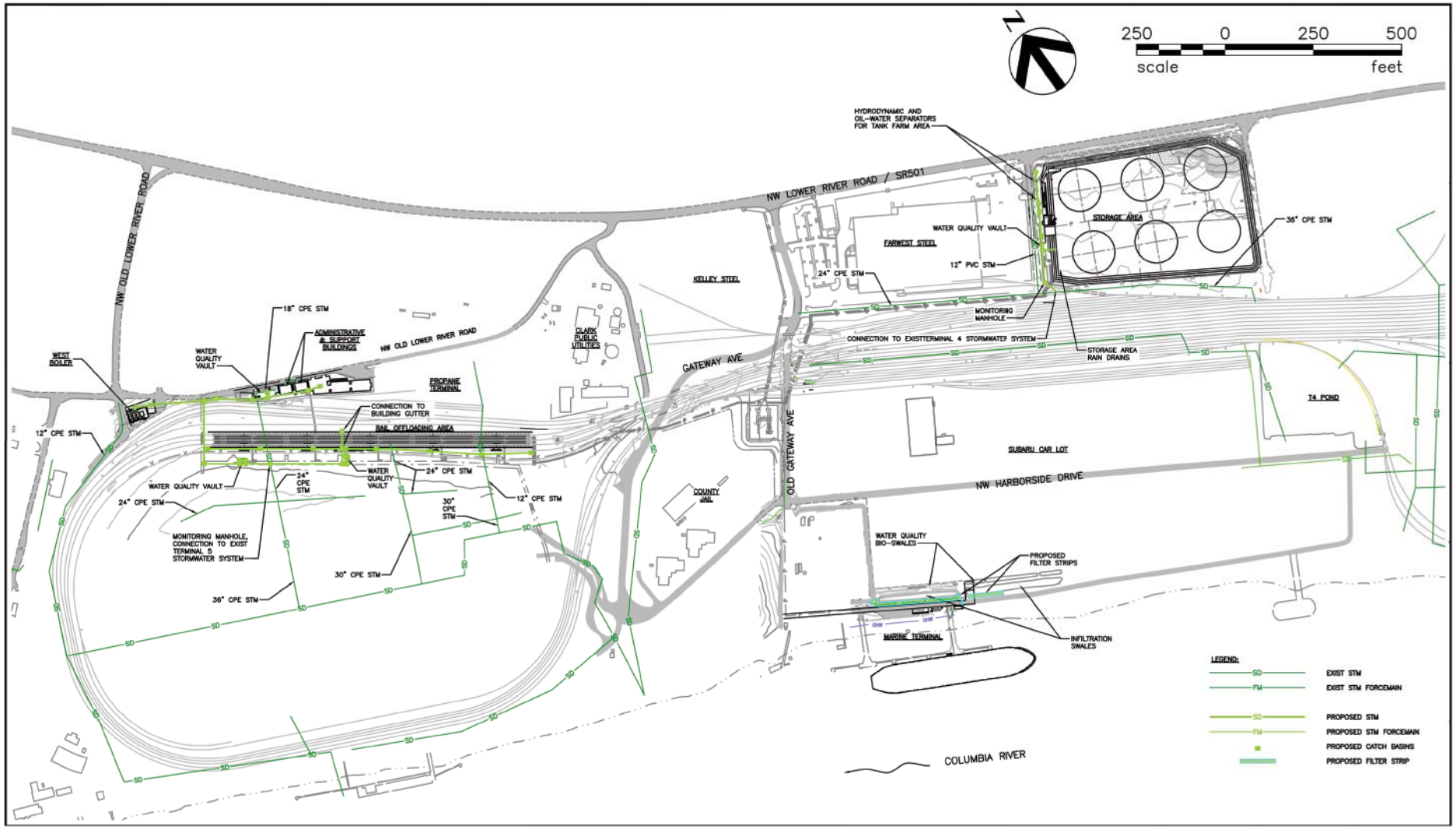
Constituent	Boiler Blowdown	Softener Backwash	Units
pH	10.2	8	
Conductivity	1200	1000	mmhos
Alkalinity	336	120	mg/L
Hardness	14	500	Mg/L as CaCO3
Polyacrylate	250	0	mg/L
Aluminum	<0.1	<0.1	mg/L
Barium	<0.4	<0.4	mg/L
Boron	<0.1	<0.1	mg/L
Bromide	<0.2	<0.2	mg/L
Cadmium	<0.04	<0.04	mg/L
Calcium	0.5	125	mg/L
Chloride	9.3	6000	mg/L
Chromium	<0.01	<0.01	mg/L
Copper	4	0.2	mg/L
Iron	2	0.1	mg/L
Lead	<0.2	<0.2	mg/L
Lithium	<0.01	<0.01	mg/L
Magnesium	3	50	mg/L
Manganese	<0.01	<0.01	mg/L
Molybdenum	<0.1	<0.1	mg/L
Nickel	<1	<1	mg/L
Nitrate	0.8	0.32	mg/L
Nitrite	<0.2	<0.2	mg/L
Phosphorus	1	1	mg/L
Potassium	59	59	mg/L
Silica	150	54	mg/L
Sodium	5880	6000	mg/L
Strontium	0.1	0.1	mg/L
Sulfate	15	0.72	mg/L
Sulfite	40	<0.2	mg/L
Vanadium	<1	<1	mg/L
Zinc	0.2	0.2	mg/L

C.2 PROCESS SCHEMATIC FOR WASTEWATER DISCHARGES





OVERALL SITE – PLAN VIEW
1"=250'



5.2-3. H5 Stormwater Drainage Map

EXHIBIT D

STATE OF WASHINGTON
ENERGY FACILITY SITE EVALUATION COUNCIL
PO Box 43172 • Olympia, Washington 98504-3172

February 19, 2016

Mr. Kelly Flint
Sr. Vice President and General Counsel
Savage Companies
901 W. Legacy Center Way
Midvale, UT 84047

Subject: Tesoro Savage Vancouver Energy Distribution Terminal Project (Project) – Revised Industrial National Pollutant Discharge Elimination System (NPDES) Permit Application Review: Application No. 2013-0; Docket: EF-131590.

Dear Mr. Flint:

The purpose of this letter is to provide review comments on the revised draft NPDES Permit Engineering Report dated October 15, 2015 submitted to the Energy Facility Site Evaluation Council (EFSEC). EFSEC coordinated a review of this report with its permit contractor at the Department of Ecology (Ecology). Review comments are provided below.

City of Vancouver Pretreatment Permit:
A pretreatment permit issued by the City of Vancouver (City) is required to discharge industrial wastewater, in this case, wastewater from the West boiler area and pump basin, to the City wastewater treatment plant. Appendix M of the revised engineering report dated October 15, 2015 contains two correspondences between the City and the applicant. However, there is no pretreatment permit/approval by the City included in Appendix M. Without information on wastewater characterization and the expected treatment level of the oil/water separator, EFSEC is unable to verify the effluent can meet the city pretreatment standards. The engineering report may be conditionally approved pending the approval of the City to accept discharge from the facility.

Area 200 Unloading and Office (Subsection 1.4.2.1)
This section states "Boiler blowdown (process wastewater) from Area 600 will be pumped to this area for on-site oil-water separation and discharge to the sewer." However in section 1.4.2.5, it states "Boiler blowdown will be temperature treated using a heat exchanger and chemical neutralization if needed… A downstream oil-water separator is also included in the design prior to discharge. Process wastewater from this area is discharged to the gravity sewer described in Area 200 above." Section 8.3.2 states "Blowdown temperature at the boiler

plant would be lowered to permit allowable levels with a cooling system that uses potable water as the coolant. Coolant water would be mixed along with the boiler blowdown". Please clarify which type of treatment will be employed to treat boiler blowdown prior to discharging to the city sanitary sewer system.

Administration and Support Building (Subsection 5.2.2.1)
The report states there are two double wall containment tanks located to the southeast of the easternmost administration/support building. The report also states those tanks will be operated such that 825 bbl of capacity is reserved to contain an entire railcar (plus 10 percent). However, there is no discussion on the impact to the tank capacity caused by the additional rail car wash water since the rail car washing water flow was not addressed in the previous report. Without the information, Ecology is unable to verify the tanks have sufficient capacity to store wastewater from the unloading building and contain spills in the building as required.

Rail car washing (Subsection 6.1.6.1):
The revised report (Page 44) states frequency of railcar exterior washing is one railcar per month based on the experience of the applicant at facilities receiving one unit train per day. Assuming each unit train contains 120 railcars, the terminal will receive oil from 3,600 railcars per month and only one out of 3600 railcars requires pressure washing. Please provide the source of the operational data and how much water is required to pressure wash each railcar.
The report states process wastewater including railcar wash water and other wastewater sources in the unloading facility is discharged to two containment tanks located at the admin/support area of Area 200. Content of those tanks will be hauled off site and disposed of by a licensed hauling and disposal company at an appropriate location. Please identify the receiving facility, treatment process employed and the ultimate disposal point(s) of all wastewater generated at the facility that is disposed of offsite.

Northern pipeline, Terminal 4 stormwater system (Subsection 1.4.1.1):
The report states that the northern pipeline currently discharging stormwater to the Terminal 4 water quality pond will be re-routed to bypass the water quality pond and reconnect to the Port existing stormwater outfall to the Columbia River. The project is ongoing and will occur prior to the construction of the facility. Will the pipeline re-routing project proceed as planned since Farwest Steel is closed at this point?

Anti-degradation Policy:
Tier II is used to ensure that receiving waters of a higher quality than the criteria assigned in the standards are not degraded unless such lowering of water quality is necessary and in the overriding public interest. Tier II applies only to new or expanded sources of pollution from specific types of activities directly regulated by Ecology (e.g., NPDES, 401, 404, Forest Practices). Any new or expanding dischargers that would cause a measurable degradation of water quality:

a. Must go through a technology review to identify and apply any feasible alternatives to that degradation.
b. Must show that overriding public benefits would occur from allowing the lowering of water quality.

A Tier II analysis should be included in the NPDES engineering report. For reference, please see WAC 173-201A-320 and Ecology guidance: (https://fortress.wa.gov/ecy/publications/SummaryPages/1110073.html) for more information.

Area 200 Miscellaneous Part/Equipment Wash (Subsection 8.3.1):
This section describes wastewater sources in Area 200 including rail car and part/equipment washing, rainwater either dripping from the rail cars or blown in from the side, and accidental release of oil or fire retardant during oil transfers or system maintenance. Wash water will be collected and conveyed to the containment tanks for hauling off site by trucks to an approved facility for recycling or disposal. Wastewater collected at collection/containment tranches will be pumped to the unloading facility containment tanks and hauled off site by truck to a licensed and approved disposal facility. Please provide wastewater characterization, the treatment process employed and the ultimate point(s) for all wastewater generated at Area 200.

Area 600 Boiler Effluent (Subsection 8.3.2):
The boiler effluent discharges listed includes condensate discharge of 12,425 gpd to haul off. Please include characterization of the condensate and identify the receiving facility, treatment process employed and the ultimate disposal point of the wastewater. West Boiler (Subsection 17.2) states process wastewater including condensate, blowdown and cooling water will be treated on site and discharged to the sanitary sewer. Please specify how the condensate will be disposed of (offsite disposal or to the sanitary sewer). **Please ensure that the treatment process employed for each wastewater stream is consistent throughout the engineering report.**

Fire pump cooling water (Subsection 8.3.4):
States that fire pump cooling water from different Areas 200, 300 and 400 is being discharged to the containment tank, sanitary sewer and stormwater system. However, there is no information regarding the characteristics of fire pump cooling water. Please provide the information for review.

C.2 Process Schematic for Wastewater Discharges:
The diagram shows there is a boiler building in Area 300 and two product tanks are heated with steam. However, it does not match with the wastewater collection/treatment system for Area 300 as provided in the engineering report. Please revise the diagram as appropriate.

The requested information is necessary for EFSEC to continue in its development of the NPDES permit and review of the Application for Site Certification (ASC). Additional information may be requested in the future if it is determined more information is needed to continue permit development and processing of the ASC. Any alterations or changes to the proposed Project during EFSEC's ASC review could warrant additional review by EFSEC and may affect the processing of other Project permit applications.

If you have any questions or would like to discuss any of these issues further, please contact Sonia E. Bumpus at (360) 664-1363, or at sbumpus@utc.wa.gov.

Sincerely,

Stephen Posner

Stephen Posner
EFSEC Manager

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