

JUN 26 2018

WA State Department
of Ecology (SWRO)

Application for a State Waste Discharge Permit to Discharge Industrial Wastewater to Ground Water by Land Treatment or Application

This application is for a state waste discharge permit as required by Chapter 90.48 RCW and Chapter 173-216 WAC. Permit applications provide Ecology with information on pollutants in the waste stream, materials that may enter the waste stream, the flow characteristics of the discharge, and the site characteristics at the point of 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: NuStar Terminals Operations Partnership L.P.

2. Facility name: NuStar Terminals Operations Partnership L.P.
(if different from applicant)

3. Applicant mail address: 5420 NW Fruit Valley Road
Street

Vancouver, WA 98660
City/State Zip

4. Facility location address: 5420 NW Fruit Valley Road
(if different from above) Street

Vancouver, WA 98660
City/State Zip

5. UBI No. 602364562 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 processing facility as decimal degrees (NAD83/WGS84):
45.6617° N / 122.6932° W

FOR ECOLOGY USE ONLY

Check One

New/Renewal ☐ Modification ☐

Date application received

Application/Permit no.

Date application accepted

Date fee paid

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

Michael Stevens, P.E.

Name

Principal Engineer

Title

503-924-4704 x1919

Telephone number

Fax number

8. Check One:

☐

Permit renewal (including renewal of temporary permits authorized by RCW 90.48.200)

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.

Rob L Hill

Signature*

Date

General Manager

Title

6/20/2018 11:10:23 AM PDT

Rob Hill

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:

Chris Chan

Signature of delegated employee

6/19/2018

Date

Sr. HSE Manager

Title or function at the facility

Chris Chan

Printed name

SECTION B. PRODUCT INFORMATION

- 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:

- List raw materials and products:

Type	RAW MATERIALS	Quantity
<i>Potatoes (Example)</i>		<i>20 million tons per year</i>
This facility is a specialty warehouse for a variety of finished petroleum and other products owned by customers. Volumes and types of products may vary.		Maximum Total Storage Capacity: 438,412 bbl

Type	PRODUCTS	Quantity
<i>French fries (Example)</i>		<i>10 million pounds per year</i>
Not a process facility.		

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 ID #, and describe whether it is a batch or continuous flow.

Process	Waste Stream Name	Waste Stream ID#	Batch (B) or Continuous (C) Process
<i>Receiving raw potatoes (Example)</i>	<i>Mud Water</i>	<i>1</i>	<i>C</i>
Non-Contact Stormwater	Non-Contact Stormwater	1	Batch

2. On a separate sheet, produce a schematic drawing showing production processes and water flow through the facility and wastewater treatment devices (*label as attachment C2*). The drawing should indicate the source of intake water and the operations contributing wastewater to the effluent and should label the treatment units. 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.

3. What is the highest daily discharge flow from the processing facility:
(Specify the time period for the value given)

NA gallons per day

What is the highest daily discharge flow to the sprayfields/infiltration basin:
(Specify the time period for the value given)

inches/acre/month OR

650,900 (design storm) gallons
per day

What is the highest average monthly discharge flow (daily flows averaged over a month) from the processing facility:
(Specify the time period for the value given)

NA gallons/day?

What is the highest average monthly discharge flow to the sprayfields: **(Infiltration Pond)**
(Specify the time period for the value given)

inches/acre/month OR

34,630 (annual average) gallons
per day

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

There are no planned treatment or infiltration improvements.

Note: The highest daily discharge flow is calculated from the 24-hour, 6-month design storm event. The "average monthly discharge flow to the sprayfields" is not applicable, so have replaced this with the calculated discharge flow to the Infiltration Pond. Does not include volume of contact water from the truck rack area or tank bottoms which is collected and transported off site for disposal.

5. If production processes (**stormwater infiltration**) are subject to seasonal variations, provide the following information. List discharge for each wastestream in gallons or million gallons per month. The combined value for each month should equal the estimated total monthly flow. Please indicate the proper 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
#1 (Example)	1000	1000	1000	1000	6000	2000	2000	2000	1000	1000	5000	4000
1	2.64	1.70	1.29	0.32	0	0	0	0	0	0.94	2.85	2.90
Estimated total gallons												

6. If this is a discharge from the processing facility to a storage or evaporative lagoon, what is the size of the lagoon (give square footage for the bottom of the lagoon and the total volume of the lagoon at full operating depth). 10,000 square feet; 10 million gallons (Example)

Stormwater from the Lined Containment area is directed to the lined stormwater / fire system pond (which together have an area of about 182,000 square feet, or about 42 percent of the total containment area). The lined stormwater / fire system pond has an estimated capacity of about 5.1 million gallons and a monthly input flow of up to 0.7 million gallons (from just the Lined Containment and Stormwater Pond footprints). Facility history has shown the stormwater / fire system pond to only occasionally flow into the adjacent overflow pond (which is an additional infiltration area) that itself has never been observed to overflow even during unusually high rain seasons (i.e., the combined infiltration capacity is adequate).

7. Check the applicable box. Is this a discharge to a sprayfield ☐ or an infiltration bed ☒? Provide the average gallons per acre per day proposed for each month in the following table.

	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept.	Oct	Nov	Dec
Estimated gallons per acre per day	4,805	3,411	2,341	609	0	0	0	0	0	1,714	5,351	5,278

Notes: * Monthly flow totals calculated for #5 and #7 are based on published averages for precipitation in Vancouver, WA, less the pan evaporation rates published by US Bureau of Reclamation (Agrimet, Aurora Station). Several months result in higher evaporation rates than normal rainfall (i.e., a net loss, reflected as "0" infiltration).

* Storage capacity of containment areas is in excess of 23,500,000 gallons, which is sufficient to contain annual stormwater volume (not accounting for infiltration/evaporation). Therefore, there is no potential for release of stormwater outside of containment areas.

8. 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
9. 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 pound quantities for solids). For solvents and solvent-based cleaners, include a copy of the material safety data sheet for each material and estimate the quantity used. *Use additional sheets, if necessary and label as attachment C.7.)*

Materials/Quantity Stored: This facility stores oil and paint for maintenance inside covered warehouse.

- | | | | |
|-----|---|-------------------------------------|-------------------------------------|
| 10. | 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)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | b. An Oil Spill Contingency Plan (chapter 173-182 WAC)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | c. An emergency response plan (per WAC 173-303-350)? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | d. A runoff, spillage, or leak control plan (per WAC 173-216-110(f))? | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | e. Any spill or pollution prevention plan required by local, state or federal authorities? If yes specify: <u>Washington Combined Plan (SPCC)</u> | <input checked="" type="checkbox"/> | <input type="checkbox"/> |
| | f. A solid waste control plan? | <input type="checkbox"/> | <input checked="" type="checkbox"/> |

SECTION D. WATER CONSUMPTION AND WATER LOSS

1. Potable water source(s):

☒ ☐ Public system (Specify name) Potable water does not contribute to waste water subject to this permit application.

☐ ☐ Private well ☐ Surface water (Specify name of water body) _____

a. Water right permit number: _____

b. Legal description of water source:

_____ $\frac{1}{4}$ S, _____ $\frac{1}{4}$ S, _____, Section, _____ TWN, _____ R

2. Potable water use

a. Indicate total water use: Gallons per day (average) De-Minimus (Domestic Only)

Gallons per day (maximum) _____

b. Is water metered? ☐ YES ☐ NO

3. Supplemental Irrigation water source(s):

☐ ☐ Public system or Irrigation District (Specify name) _____

☐ ☐ Private well ☐ Surface water (Specify name of water body) _____

a. Water right permit number: _____

b. Legal description of water source:

_____ $\frac{1}{4}$ S, _____ $\frac{1}{4}$ S, _____, Section, _____ TWN, _____ R

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SECTION E. WASTEWATER INFORMATION

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

Intake: "Intake" or water generation is exclusively from precipitation and flow is not measured on-site (data from local climate/weather stations are used as needed for determining input flow rates).

Effluent "Effluent" water is either evaporated or infiltrated across the site (excepting at the truck rack, which is collected and transported off-site for disposal). Flow rates are not measurable, but are calculated from published precipitation and pan evaporation rates (as per note on Page 5).

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.

The water accumulated in the stormwater / fire system pond would be representative of stormwater quality at the facility, and the previous sampling (summarized herein) includes the collection of grab samples from the stormwater / fire system pond.

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.*) [Additional analyses include VOCs and SVOCs; all results have been non-detect]

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.

Note: The proposed sampling program would include the collection of samples from water being released from the Lined Containment area. The samples would be analyzed for TPH and VOCs. Other analytes (such as residual chlorine and fecal coliform) would not be applicable to the water source and site use. Consistent with other similar permits, the sampling program is proposed to be completed quarterly.

X	Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19 th , 20 th 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	
	Conductivity (micromhos/cm)					SM 2510 B	
	Ammonia-N as N					SM 4500-NH ₃ C	/0.3 mg/L
	pH					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	
	Nitrate + nitrite-N as N					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
X	NWTPH - Dx	ND (<250)	ND (<250)	<250 µg/L	2	Ecology NWTPH Dx	250/250 µg/l
X	NWTPH - Gx	ND (<250)	ND (<250)	<250 µg/L	2	Ecology NWTPH Gx	250/250 µg/l
	Calcium					EPA 200.7	10 µg/l

X	Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19 th , 20 th edition or EPA	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
	Chloride					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
	Sodium					EPA 200.7	29/ µg/l
	Sulfate					SM 4500-SO ₄ C/D	/200 µg/l
	Alkalinity as CaCO ₃					SM 2320 B	/5 mg/L as CaCO ₃
X	Arsenic(total)	ND (<0.5)	1.27	0.89 µg/L	2	EPA 200.8	0.1/0.5 µg/l
X	Barium (total)	5.84	21.1	13.5 µg/L	2	EPA 200.8	0.5/2 µg/l
X	Cadmium (total)	ND (<0.02)	ND (<0.02)	<0.02 µg/L	2	EPA 200.8	.05/25 µg/l
X	Chromium (total)	ND (<0.2)	0.94	0.57 µg/L	2	EPA 200.8	0.2/1 µg/l
X	Copper (total)	2.02	2.19	2.11 µg/L	2	EPA 200.8	0.4/2 µg/l
	Iron (total)					EPA 200.7	12.5/50 µg/l
X	Lead (total)	0.111	0.895	0.503 µg/L	2	EPA 200.8	0.1/.5 µg/l
	Manganese (total)					EPA 200.8	0.1/0.5 µg/l
X	Mercury (total) pg/L	ND (<0.2)	ND (<0.2)	<0.2 µg/L	2	EPA 1631E	0.2/0.5 pg/l
	Molybdenum(total)					EPA 200.8	0.1/0.5 µg/l
X	Nickel(total)	0.31	0.84	0.58 µg/L	2	EPA 200.8	0.1/0.5 µg/l
X	Selenium (total)	ND (<1.0)	ND (<1.0)	<1.0 µg/L	2	EPA 200.8	1/1 µg/l
X	Silver (total)	ND (<0.02)	ND (<0.02)	<0.02 µg/L	2	EPA 200.8	.04/.2 µg/l
X	Zinc (total)	ND (<0.5)	3.60	2.1 µg/L	2	EPA 200.8	0.5/2.5 µg/l

Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136, Appendix B.

Quantitation Level (QL) also known as Minimum Level of Quantitation (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assuming that the lab has used all method-specified sample weights, volumes, and cleanup procedures. The QL is calculated by multiplying the MDL by 3.18 and rounding the result to the number nearest to (1, 2, or 5) $\times 10^n$, where n is an integer. (64 FR 30417).

ALSO GIVEN AS:

The smallest detectable concentration of analyte greater than the Detection Limit (DL) where the accuracy (precision & bias) achieves the objectives of the intended purpose. (Report of the Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act Programs Submitted to the US Environmental Protection Agency December 2007).

Note: Detected metals concentrations have consistently been below MTCA A Cleanup Levels and MCLs (which are applicable as there is no potential for stormwater to impact surface water). Other analyses have included SVOCs (EPA Method 8270D) and VOCs (EPA Method 8260C), both of which were non-detect for all analytes.

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5. Does this facility use any of the following chemicals as raw materials in production, 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 (Use additional sheets, if necessary and label as attachment E5.):

Petroleum products are stored on-site, but water has been tested for VOCs and SVOCs with no detections.

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

Note: Petroleum-related compounds included on this list (e.g., benzene) may be present at the facility, but not as a raw material, are not part of a manufacturing process, and have not been detected in stormwater monitoring that has been conducted at the facility.

6. Are any other pesticides, herbicides, or fungicides used at this facility? ☐ YES ☒ NO
If yes, specify the material and quantity used.

De-Minimus use of commercial herbicides for nuisance weed control. There is no storage of such materials within the containment areas.

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 range of measurements 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 when available. Copy this page as necessary for each well. Provide the latitude and longitude in decimal format.

Ecology Well Tag ID # _____

Well ID # _____ (example MW-1)

(example AABI23)

Latitude: _____

Longitude: _____

Well Elevation (to the nearest 0.01 feet) _____ Check the appropriate box; the elevation measurement is relative to: the NAVD88 standard ☐ mean sea level ☐

Parameter	Units	Range of Measurements	Number of Analyses	Analytical Method	Detection Limit
BOD (5 day)	mg/L				
COD	mg/L				
Total organic carbon	mg/L				
Total dissolved solids	mg/L				
Dissolved Fixed Solids	mg/L				
pH	Standard units				
Conductivity	(micromhos/cm)				
Alkalinity	mg/L as CaCO ₃				
Total hardness	mg/L				
Fecal coliform	organisms/100mL				
Total coliform	organisms/100mL				
Dissolved oxygen	mg/L				
Ammonia-N	mg/L				
Nitrate + nitrite-N, nitrate as N	mg/L				
Total kjeldahl N as N	mg/L				
Ortho-phosphate-P as P	mg/L				
Total-phosphate-P as P	mg/L				
Total Oil and Grease	mg/L				
Total petroleum hydrocarbon	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Calcium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Chloride	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Fluoride	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Magnesium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Potassium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Sodium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Sulfate	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Barium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Cadmium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Chromium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Copper	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Iron	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Lead	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				

Manganese	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Mercury	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Selenium	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Silver	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Zinc	<input type="checkbox"/> mg/L <input type="checkbox"/> µg/l				
Depth to water level (to the nearest .01 feet)					

Note: Six groundwater monitoring wells are present at the facility associated with a MTCA Cleanup Action being completed under an Agreed Order. Sampling of these wells for stormwater quality parameters is not included in the MTCA scope of work (has included TPH and VOCs). It is expected that the flow from the Lined Containment to the Stormwater / fire system pond (which is inspected and sampled) would be representative of stormwater quality at the facility. Monitoring wells in the vicinity of the MTCA Cleanup Action would not be appropriate for use to assess impacts from stormwater and have therefore not been included. The average depth to groundwater in the vicinity of the stormwater pond is about 17 feet below ground surface.

SECTION G. SITE ASSESSMENT

The local library and local city or county planning offices may be helpful in providing the information required in this section. You may consult the Department of Ecology Water Resources Program to help identify wells within one mile of your site.

1. Land Application Sites: Provide the information below for each land application site. Provide the latitude/longitude (approximate center of the site; NAD83/WGS84 reference datum.) Attach a copy of the contract(s) authorizing use of any private land(s) used for each treatment site. Add table rows as necessary.

Legal Description (section/township/range) Section 16/Township 2N/Range 1E			
Latitude	Longitude	Acreage	Owner
45.6619	-122.6959	31.12	NUSTAR TERMINALS OPERATIONS PARTNERSHIP LP
Legal Description (section/township/range)			
Latitude	Longitude	Acreage	Owner
Legal Description (section/township/range)			
Latitude	Longitude	Acreage	Owner
Legal Description (section/township/range)			
Latitude	Longitude	Acreage	Owner

2. If this is a new discharge, list all environmental control permits or approvals needed for this project; for example, SEPA review, engineering reports, hydrogeologic reports, , , or air emissions permits.

Not applicable. No additional permit required for stormwater infiltrate within the site. Stormwater infiltration is entirely within the subject facility.

3. Attach an original United States Geological Survey (USGS) 7.5 minute topographic map and aerial photograph(s) from an internet mapping site that shows the processing facility and sprayfield site(s). **USGS topographical maps are available from the Department of Natural Resources (360 902-1234), Metsker Maps (206 588-5222), some local bookstores, and internet sites.** Show the following on this map:
 - a. Location and name of internal and adjacent streets.
 - b. Surface water drainage systems within ¼ mile of the site.
 - c. All wells within 1 mile of the site.
 - d. Wastewater discharge points.
 - e. Land uses and zoning adjacent to the wastewater application site.
 - f. Groundwater gradient.
4. Describe the soils on the site using information from local soil survey reports. **Soils information is available from your local County Conservation District or from information contained in the sites hydrogeologic report.** *(Submit on separate sheet and label as attachment G.4.)*
5. Describe the local geology and hydrogeology within one mile of the site. Include any groundwater quality data. **The local library or local Soil Conservation Service may have this information.** *(Submit on separate sheet and label as attachment G.5.)*
6. List the names and addresses of contractors or consultants who provided information and cite sources of information by title and author.

Apex Companies, LLC

3015 SW First Avenue, Portland, Oregon

Resources:

- Remedial Investigation and Risk Assessment Report, Ash Creek Associates, December 29, 2010.
- Feasibility Study, Ash Creek Associates, July 12, 2012.
- September 2015 Groundwater Monitoring Results, Apex Companies, November 5, 2015.
- City of Vancouver Zoning Map B-3.
- Soil Survey of Clark County, Washington (November 1972).

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 coverage under the Washington State Industrial Stormwater NPDES general permit? ☐ YES ☒ NO

Note: If you answered "no" to both questions above, complete the following questions 2 through 8.

2. Describe the size of the stormwater collection area.
- a. Unpaved area 772,000 (182,000 as lined containments) sq.ft.
 - b. Paved area 113,000 sq.ft. (outside of containment area)
 - c. Other collection areas (roofs) 61,000 sq.ft. (outside of containment area)
3. Does your facility's stormwater discharge to: *(Check all that apply)*
- ☐ Storm sewer system; name of storm sewer system *(operator)*: _____
 - ☐ Sanitary sewer
 - ☐ Directly to surface waters of Washington State *(e.g., river, lake, creek, estuary, ocean)*.
Specify waterbody name _____
 - ☐ Indirectly to surface waters of Washington State *(i.e., flows over adjacent properties first)*.
 - ☒ Directly to ground waters of Washington State via:
 - ☐ Dry well
 - ☐ Drainfield
 - ☒ Other **(Infiltration Pond for lined containment area and direct infiltration for remaining containment areas)**
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)*

- | | |
|---|---|
| <input type="checkbox"/> Solvents | <input type="checkbox"/> Hazardous wastes |
| <input type="checkbox"/> Scrap metal | <input type="checkbox"/> Acids or alkalies |
| <input checked="" type="checkbox"/> Petroleum or petrochemical products | <input type="checkbox"/> Paints/coatings |
| <input type="checkbox"/> Plating products | <input type="checkbox"/> Woodtreating products |
| <input type="checkbox"/> Pesticides | <input type="checkbox"/> Other <i>(please list)</i> : _____ |

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

- | | |
|---|--|
| <input checked="" type="checkbox"/> Oil/water separator | <input type="checkbox"/> Detention facilities |
| <input checked="" type="checkbox"/> Containment | <input checked="" type="checkbox"/> Infiltration basins |
| <input checked="" type="checkbox"/> Spill prevention | <input checked="" type="checkbox"/> Operational BMPs |
| <input type="checkbox"/> Surface leachate collection | <input checked="" type="checkbox"/> Vegetation management |
| <input checked="" type="checkbox"/> Overhead coverage | <input checked="" type="checkbox"/> Other <i>(please list)</i> : <u>Contact stormwater (i.e., from truck rack and tank bottoms) is collected and transported off-site for disposal.</u> |

6. Attach a 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. Label this as attachment H.8.

Stormwater containment and infiltration areas are shown on Figure 2.

Note: Stormwater in the Lined Containment area is inspected prior to release, is sampled, and is managed through the Infiltration Pond. The remaining containment areas across the facility infiltrate stormwater in place, except for at the truck rack for which stormwater is collected and transported off-site for disposal. Non-contact stormwater from the tank roofs is inspected and released to the ground within the unlined containment area for infiltration if there is no evidence of impacts (in accordance with NuStar Normal Operating Procedure NOP-VAN-25). Contact water within the tanks is collected and transported off-site for disposal. The unlined containment berms have a total footprint area of about 240,000 square feet and a storage capacity of 19.3 million gallons, which is in excess of the largest tank volume in each containment area plus the design storm rainfall volume. A historical release of petroleum products near the Infiltration Pond has resulted in impacts to groundwater that is being managed under Ecology oversight. Sampling of the Infiltration Pond has not observed any petroleum hydrocarbon and it is concluded that infiltration would not have contributed to groundwater impacts.

SECTION I. OTHER INFORMATION

1. Describe liquid or solid wastes generated that are not disposed of in the waste stream(s) and describe the method of disposal. For each type of waste, provide type of waste, name, address, and phone number of hauler.

Contact stormwater (i.e., from loading rack area and tank bottom water) is collected on-site and transported to an off-site disposal facility by a contracted waste hauler.

Current Hauler – CCS, 55 International Way, Longview, WA 98632 (360) 423-6316

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

The facility has a total of 17 tanks available for products storage. Contacted stormwater is stored in facility storage tanks (truck rack stormwater runoff is stored in the oil/water separator tanks and tank bottom water is drawn directly from the tank). Storage tanks are within secondary containments (7 containment areas total) capable to contained the largest tank volume within the corresponding containment.

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.4. Additional results of effluent testing
- ☐ G.1. Copies of land use contracts
- ☒ G.3. USGS topographical map [See Figure 1]
- ☒ G.4. Soils description
- ☒ G.5. Local geology and hydrology
- ☒ H.8. Stormwater drainage map [See Figure 2]

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.