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January 6, 2023

Patrick Hallinan  
Water Quality Permit Coordinator  
Water Quality Section  
Washington State Department of Ecology  
4601 N Monroe  
Spokane, WA 99205

*RE: Draft State Waste Discharge Permit Modification Application to Permit No. ST0005375  
Moses Lake Industries, Inc.  
8248 Randolph Rd NE  
Moses Lake, WA 98837*

Dear Mr. Hallinan:

On behalf of Moses Lake Industries, Inc. (MLI), Trinity Consultants is submitting the enclosed Draft State Waste Discharge Permit Modification Application for Permit No. ST0005375, which expired on September 30, 2020. A permit renewal application was submitted to Ecology dated September 27, 2019 and is currently under Ecology’s review.

MLI is proposing to construct a copper wastewater treatment facility to treat the wastewater generated from copper sulfate tote rinsing process in early 2023. The treated copper wastewater is proposed to be discharged to the Port of Moses Lake land treatment system through existing Outfall 004, along with the existing reverse osmosis reject water stream. Enclosed is the Industrial Wastewater Permit Modification Application. Please note that the measurement values provided in Section E.4 are revised effluent limits after a comparison of the proposed effluent limits in the 2019 renewal application and the calculated Outfall 004 effluent quality if the treated copper wastewater was discharged along with RO reject water. Additionally, only information related to the new copper wastewater treatment facility was included in this modification application. This data should be combined with the information provided in the renewal application submitted previously by MLI. Please treat the pages claimed as confidential business information as confidential.

The new copper treatment facility will discharge to Outfall 004. A proposed effluent limits change (S1.C) is provided in the table below. Please note that only the flow and parameters that are requested to be changed are included in the table. The other parameters that are not included in the table below remain the same as the 2019 permit renewal application.

Effluent Limits: Outfall # 004 (Port of Moses Lake Land Treatment System) Latitude 47.2027945355452 Longitude -119.29273479466			
Parameter	Six Month Average	Average Monthly	Maximum Daily
Flow, gpd		80,000 (not change)	
Conductivity (µS/cm)	<del>1,600</del> 2,000		3,130
Total Dissolved Solids (mg/L)	<del>1,000</del> 2,000		2,000
Sodium (mg/L)	<del>115</del> 200		230

Sulfate (mg/L)	<del>250</del> 350		500
Copper (mg/L)	<del>0.03</del> 0.1		<del>5.0</del> 3.2

1. Decrease the copper effluent limit to meet the requirements of 40 CFR Subpart AJ § 415.364 Pretreatment standards for existing sources (PSES).

If you have any questions or comments about this application, please do not hesitate to call me at (253) 480-3121 or by email at [ashi@trinityconsultants.com](mailto:ashi@trinityconsultants.com).

Sincerely,



Andrea Shi  
Consultant  
Trinity Consultants

cc:

Mr. Jon Erlenmeyer – Moses Lake Industries, Inc.

Mr. Josh Haar, PE – Trinity Consultant



# 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: Moses Lake Industries, Inc.
  
2. Facility Name: \_\_\_\_\_  
(if different from Applicant)
  
3. Applicant Mail Address: 8248 Randolph Rd NE  
Street  
  
Moses Lake, WA 98837  
City/State Zip
  
4. Facility Location Address: \_\_\_\_\_  
(if different from 3 above) Street  
  
\_\_\_\_\_ \_\_\_\_\_  
City/State Zip
  
5. UBI No. \_\_\_\_\_  
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):  
48.20194 / -119.2944

<b>FOR OFFICE USE ONLY</b>		<b>Check One:</b>	New/Renewal <input type="checkbox"/>	Modification <input type="checkbox"/>
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:

Jon Erlenmeyer

EHSS/Engineering Director

Name

Title

509-855-6343

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: \_\_\_\_\_

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

Signature\*

Date

Title

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

- 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: Mose Lake Industries (MLI) manufactures and repackages specialty chemicals for the semiconductor industry. Products include: 1) the manufacture of tetramethylammonium carbonate (TMAC) solutions in water (SIC 2869), 2) manufacture of tetramethylammonium hydroxide (TMAH) solutions in water (SIC 2869), 3) manufacture of organic polymer (SIC 2869), 4) manufacture of copper(II) sulfate and purification of cobalt sulfate (SIC 2819), 5) manufacture and formulation of copper and cobalt electroplating solutions (SIC 2819), 6) formulation of plating additive solutions (SIC 2819), 7) formulation of laboratory reagents (SIC 2819), 8) DI water production, and 9) QA/QC lab operations. The primary SIC for the facility is 2869. The secondary SIC is 2819.

MLI sells high-purity copper sulfate solution that is packaged for sale in 1000-liter returnable totes. Totes returned to MLI from its customers are fully emptied and then triple-rinsed with ultra-high purity water (UPW). The tote rinse waters, plus other copper-bearing wastewater from associated production facilities, are currently collected and shipped off-site as non-hazardous waste. The cost for disposal of the wastewater in this manner is increasingly expensive and MLI is planning to treat the wastewater onsite through an on-site copper wastewater treatment facility. The wastewater of the copper wastewater treatment facility will be discharged to the Port of Moses Lake Land Treatment System via Outfall 004.

- List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
<i>Grapes (Example)</i>		<i>1,000 tons per year</i>
25% Sodium hydroxide solution - neutralize the copper wastewater		5,200 lbs per year
Flocculant - improve solids setting in the clarifier		<300 lbs per year
Sulfuric acid - reduce the final pH of treated wastewater		<300 lbs per year
Coagulant - improve solids setting in the clarifier		<300 lbs per year
Sulfide - improve efficiency of copper precipitation		<300 lbs per year
Type	PRODUCTS	Quantity
<i>Grape Juice(Example)</i>		<i>300,000 gallons per year</i>
None - Wastewater is being generated from a tote cleaning process		

**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
Copper containing tote rinsate and DI water production	RO reject water and addition of treated copper wastewater	WS#1	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? 80,000 to Port of Moses Lake gallons/day

What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 80,000 to Port of Moses Lake 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.)*

MLI is planning to construct a treatment system to treat rinsate water of returned copper sulfate totes on site rather than continuing to ship off site. It is being proposed to discharge the treated copper wastewater through existing Outfall 004 to the Port of Moses Lake. Reverse osmosis reject water is currently discharged through Outfall 004 and the treated copper wastewater would be mixed with the RO reject water and discharged as a combined stream to Outfall 004. The treatment system is planned to be installed Q3 2023 with initial discharges occurring in Q4 2023.

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
<b>Estimated Total Monthly Flow (GPD)</b>												

6. How many hours a day does this facility typically operate?                      8 min.  
 How many days a week does this facility typically operate?                      5 min.  
 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: Updates to the application submitted in 2019 include the raw materials included in Section B-2 Raw Materials and Products Section.

- | 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)?  | <input type="checkbox"/>            | <input checked="" 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 type="checkbox"/>            | <input checked="" 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: _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| f. | A solid waste control plan?   | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |
| g. | A Slug Discharge Control Plan (40 CFR 403.8(f)(2)(v))?  | <input checked="" type="checkbox"/> | <input type="checkbox"/>            |

**SECTION D. WATER CONSUMPTION AND WATER LOSS**

1. Potable water source(s):

Public System (Specify) City of Moses Lake

Private Well  Surface Water

a. Water Right Permit Number: \_\_\_\_\_

b. Legal Description of Water Source

\_\_\_\_\_ 1/4S, \_\_\_\_\_ 1/4E, \_\_\_\_\_, Section, \_\_\_\_\_ TWN, \_\_\_\_\_ R

2. Potable water use

a. Indicate total water use \_\_\_\_\_

Gallons per day (average) 110,000 future

Gallons per day (maximum) 90,000 to 140,000 future

b. Is water metered?

YES  NO

## SECTION E. WASTEWATER INFORMATION

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

Intake: Flowmeter

Effluent Mag Flowmeter

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 values provided in Section E.4 are revised effluent limits after a comparison of the proposed effluent limits in the 2019 renewal application and the calculated Outfall 004 effluent quality if the treated copper wastewater was discharged along with RO reject water. A treatability test was conducted to determine the copper concentration in the wastewater.

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 19 <sup>th</sup> ,20 <sup>th</sup> 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	
X	Total dissolved solids		2,000	2,000	Estimated	SM 2540 C	
X	Conductivity (micromhos/cm)		3,130	2,000	Estimated	SM 2510 B	
	Ammonia-N as N					SM 4500-NH <sub>3</sub> 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 <sub>3</sub> E	100 µg/L
	Total kjeldahl N as N					SM 4500-N <sub>org</sub> 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
	Calcium					EPA 200.7	10 µg/l
	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
X	Sodium		230	200	Estimated	EPA 200.7	29/ µg/l
X	Sulfate		500	350	Estimated	SM 4500-SO <sub>4</sub> C/D	/200 µg/l

X	Parameter	Measurement Values			Number of Analyses	Analytical Method Std. Methods 19 <sup>th</sup> , 20 <sup>th</sup> edition or EPA	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
	Arsenic(total)					EPA 200.8	0.1/0.5 µg/l
	Barium (total)					EPA 200.8	0.5/2 µg/l
	Cadmium (total)					EPA 200.8	.05/.25 µg/l
	Chromium (total)					EPA 200.8	0.2/1 µg/l
X	Copper (total)		3.2	0.1	Estimated	EPA 200.8	0.4/2 µg/l
	Lead (total)					EPA 200.8	0.1/.5 µg/l
	Mercury (total) pg/L					EPA 1631E	0.2/0.5 pg/l
	Molybdenum(total)					EPA 200.8	0.1/0.5 µg/l
	Nickel(total)					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
	Zinc (total)					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: Copper is generated from tote rinsing and associated copper sulfate production facilities. MLI plans to construct and operate a copper wastewater treatment facility and the wastewater will be treated to reduce copper concentration to below 0.1 mg/L. Please refer to the Engineering Report for details.

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
<b>Benzo(j)fluoranthene</b>	<b>205-82-3</b>	1,2-Diphenylhydrazine (as <i>Azobenzene</i> )	122-66-7
Benzo(k)fluoranthene (11,12-benzofluoranthene)	207-08-9	Fluoranthene	206-44-0
<b>Benzo(r,s,t)pentaphene</b>	<b>189-55-9</b>	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	<b>3-Methyl cholanthrene</b>	<b>56-49-5</b>
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
<b>Dibenzo (a,j)acridine</b>	<b>224-42-0</b>	N-Nitrosodi-n-propylamine	621-64-7
<b>Dibenzo (a,h)acridine</b>	<b>226-36-8</b>	N-Nitrosodiphenylamine	86-30-6
Dibenzo(a-h)anthracene (1,2,5,6-dibenzanthracene)	53-70-3	<b>Perylene</b>	<b>198-55-0</b>
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:

Pesticide, herbicide and fungicide are used and managed by licensed third-party contractors.

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):

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.

Air emission permit 22AQ-E002

## 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: \_\_\_\_\_)*

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)*

- |                                     |                                     |                                     |                                    |
|-------------------------------------|-------------------------------------|-------------------------------------|------------------------------------|
| <input type="checkbox"/>            | Solvents                            | <input checked="" type="checkbox"/> | Hazardous Wastes                   |
| <input checked="" type="checkbox"/> | Scrap Metal                         | <input type="checkbox"/>            | Acids or Alkalies                  |
| <input 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 checked="" 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 type="checkbox"/>            | Oil/Water Separator         | <input type="checkbox"/>            | Detention Facilities               |
| <input checked="" type="checkbox"/> | Containment                 | <input type="checkbox"/>            | Infiltration Basins                |
| <input checked="" type="checkbox"/> | Spill Prevention            | <input checked="" type="checkbox"/> | Operational BMPs                   |
| <input type="checkbox"/>            | Surface Leachate Collection | <input type="checkbox"/>            | Vegetation Management              |
| <input checked="" type="checkbox"/> | Overhead Coverage           | <input type="checkbox"/>            | Other <i>(please list)</i> : _____ |

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.

The filtered solids (filter cake) will be discharged by gravity from the filter into supersacks and/or drums. Supersacks and/or drums containing the filter cake will be shipped off site for disposal or for beneficial recycling of the contained copper. The vendor info is TBD.

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

Raw materials are stored in covered warehouses with sloped concrete floors and sumps. Wastes are stored in concrete secondary containment with blind sumps. Treatment chemicals will be stored in the wastewater treatment building, which will drain to floor drains, which can be pumped to the wastewater holding tanks.

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

## 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:

Treatment Works Owner: Port of Moses Lake

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Street: 7810 Andrews N.E. Suite 200

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City/State: Moses Lake, WA Zip: 98837

---

Director, Facilities

---

Signature of Treatment Works Authority \_\_\_\_\_ Date \_\_\_\_\_ Title \_\_\_\_\_

Molton Miller

---

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: \_\_\_\_\_

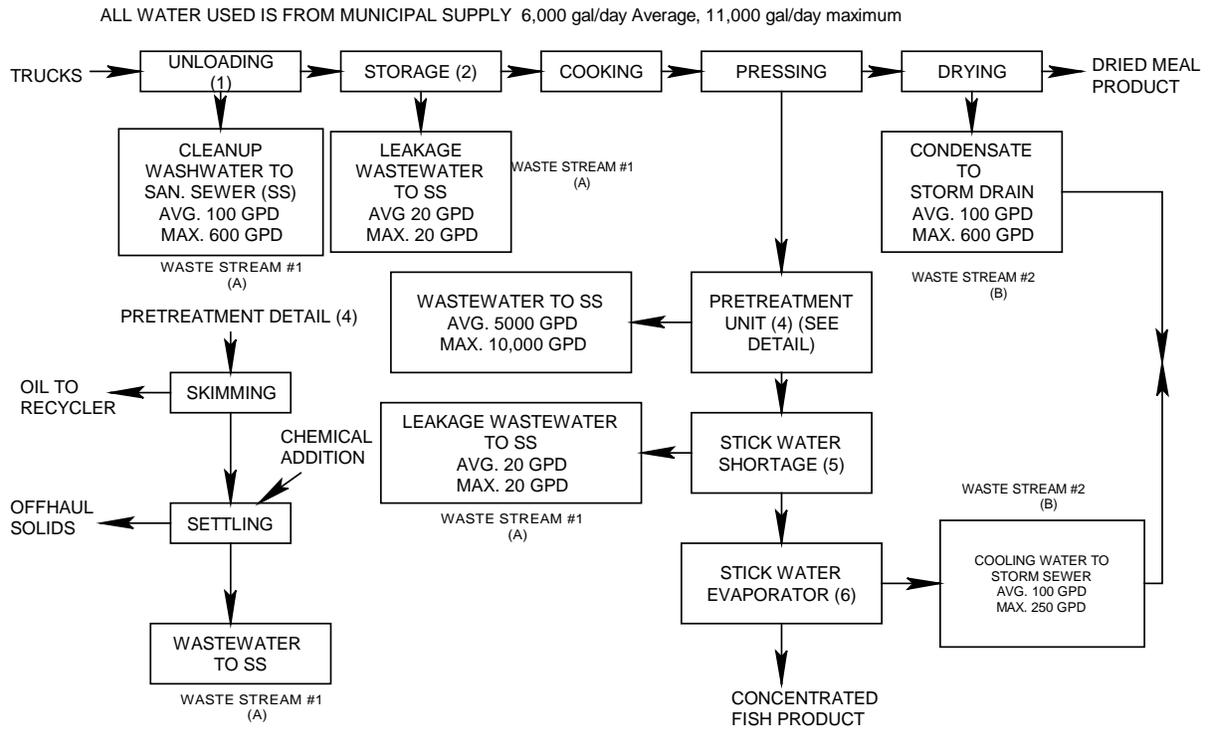
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Signature of Sewer System Authority \_\_\_\_\_ Date \_\_\_\_\_ Title \_\_\_\_\_

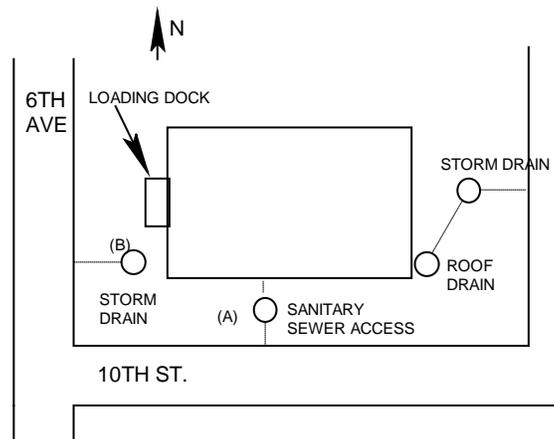
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Printed Name

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 and 40 CFR parts 405-471).

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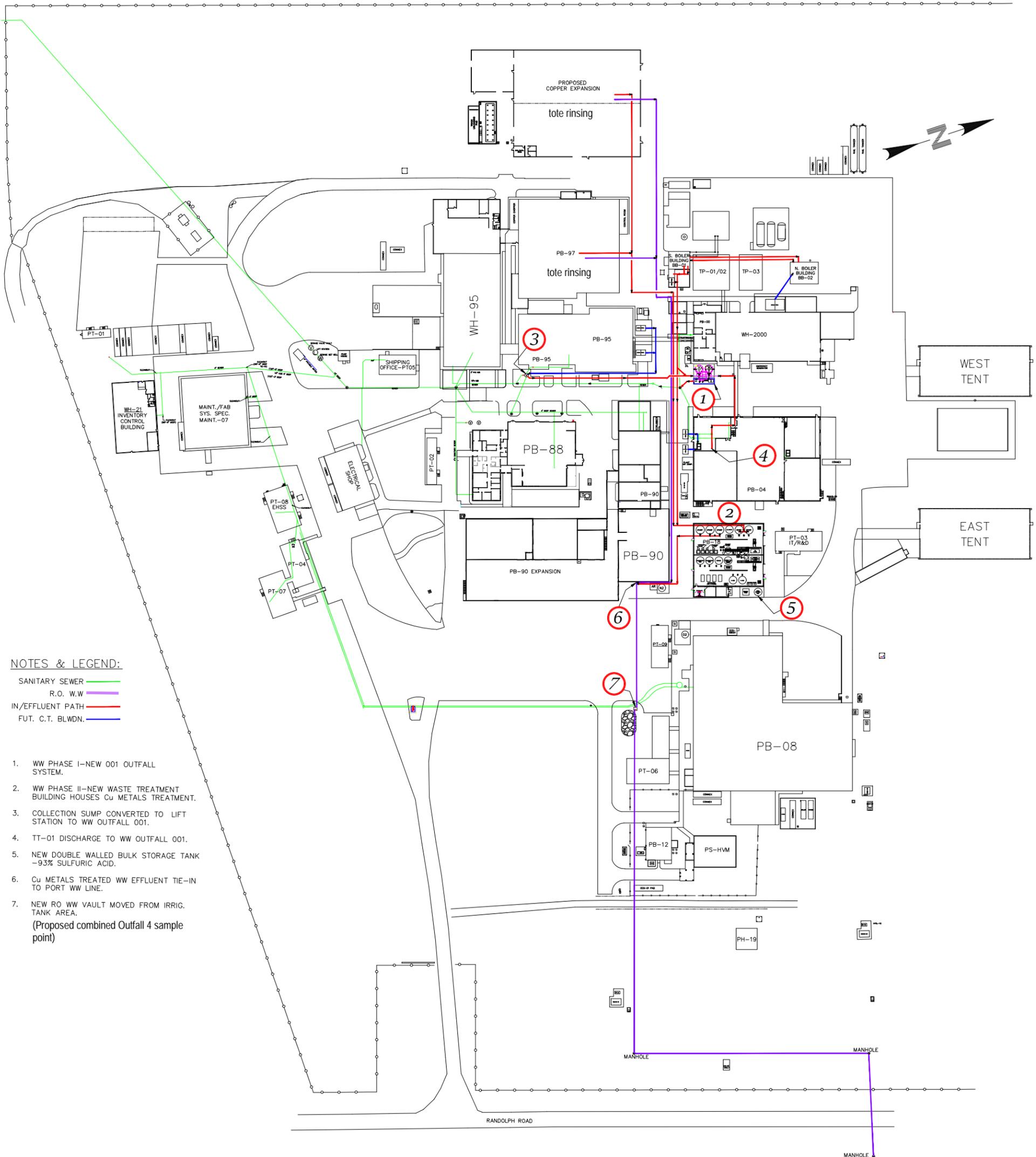
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### Summary of Attachments That May be Required for This Application:

*(Please check those attachments that are included)*

- |                                     |                          |      |   |
|-------------------------------------|--------------------------|------|---|
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | C.2. | Production schematic flow diagram and water balance |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | C.4. | Wastewater treatment improvements                   |
| <input type="checkbox"/>            | <input type="checkbox"/> | C.7. | Additional incidental materials                     |
| <input type="checkbox"/>            | <input type="checkbox"/> | E.8. | Additional results of effluent testing              |
| <input checked="" type="checkbox"/> | <input type="checkbox"/> | F.1. | Facility site map                                   |
| <input type="checkbox"/>            | <input type="checkbox"/> | 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.*



**NOTES & LEGEND:**

- SANITARY SEWER ———
- R.O. W.W. ———
- IN/EFFLUENT PATH ———
- FUT. C.T. BLWDN. ———

1. WW PHASE I—NEW 001 OUTFALL SYSTEM.
2. WW PHASE II—NEW WASTE TREATMENT BUILDING HOUSES Cu METALS TREATMENT.
3. COLLECTION SUMP CONVERTED TO LIFT STATION TO WW OUTFALL 001.
4. TT-01 DISCHARGE TO WW OUTFALL 001.
5. NEW DOUBLE WALLED BULK STORAGE TANK —93% SULFURIC ACID.
6. Cu METALS TREATED WW EFFLUENT TIE-IN TO PORT WW LINE.
7. NEW RO WW VAULT MOVED FROM IRRIG. TANK AREA.  
(Proposed combined Outfall 4 sample point)