



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: Sila Nanotechnologies Inc

2. Facility Name: Moses Lake Anode Manufacturing Plant
(if different from Applicant)

3. Applicant Mail Address: 3741 Road N 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. 604 912 809
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):
47.14550 / -119.17674

FOR OFFICE USE ONLY			
Check One:		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:

<u>Jim Dobrzynski</u>	<u>EHS&S Risk Manager</u>
Name	Title
<u>925-989-9696</u>	
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.

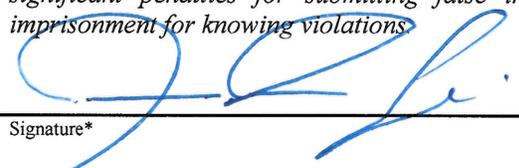
Permit Modification

Existing Unpermitted Discharge

Proposed Discharge

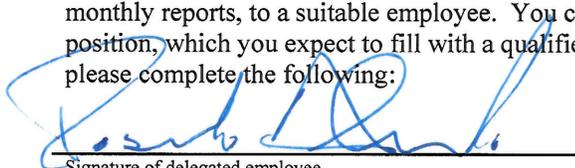
Anticipated date of discharge: July 31, 2024

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.

	<u>3/27/24</u>	<u>EHS&S Risk Manager</u>
Signature*	Date	Title
<u>Jim Dobrzynski</u>		
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:

	<u>3/27/2024</u>	<u>Senior Plant Director</u>
Signature of delegated employee	Date	Title or function at the facility
<u>Rosendo Alvarado</u>		
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:

Sila Nanotechnologies (“Sila”) is planning the construction of a 300 tons per year (“tpy”) carbon silicon anode manufacturing facility in Moses Lake, WA. SIC Code 3624. The process involves taking a carbon powder and through the use of high temps process tools and gases we are able to make the powder porous, deposit silicon, resize the particles and then coated with carbon. The entire process is a dry process. We will have an on site abatement units (Thermal Oxidizer, Caustic Scrubber & emergency flare) as well as balance of plant tools like compressors, adiabatic closed loop process cooling water cooler and emergency generator. We will also have an on site QC lab, maintenance shop and offices. Additional information can be found in SEPA Checklist PLN2023-0040 SILA Nanotech - Silicon Anode

- List raw materials and products used at his facility:

Type	RAW MATERIALS	Quantity
<i>Grapes (Example)</i>		<i>1,000 tons per year</i>
Carbon powder		300 tpy
Sodium Hydroxide		1400 tpy
Liquid Hydrocarbon gas		335 tpy
Silane		122 tpy
CO2 & Nitrogen		15 tpy & 4.2 tpy
Type	PRODUCTS	Quantity
<i>Grape Juice(Example)</i>		<i>300,000 gallons per year</i>
Carbon Silicon Anode powder		300 tpy

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
Adiabatic Cooling Tower	Cooling Tower Blow Down	ACTP1	B
	System Start Up Flushing planned Once	ACTP1F*	B
	Non Contact Sump Fill and Flush	ACTP1SF*	B
	Drain & Refill During Maintenance	ACTP1M*	B

* - See bottom of page 5 for meaning of asterick.

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? 1200* gallons/day
- What is the maximum average monthly wastewater discharge flow (daily flows averaged over a month)? 274* 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.*)

None planned at this time

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
ACTP1				33	103	650	935	1129	210			
Estimated Total Monthly Flow (GPD)				33	103	650	935	1129	210			

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: **None at this time**

*** Our current projected flow rate during normal operation is depicted in the table above. However during initial start up of both the closed Adiabatic Cooling Tower System (TrilliumSeries Adiabatic Cooler - TRF) which will comprise of 4 units with the space for a 5 unit (32,000 gallon capacity for all 5 systems) and Non Contact Process Cooling Water Sump System (7500 gallon sump capacity (1500 gallons for each sump) will need to be flushed as part of start up operations and the water will be sent into the city sewer system at a rate not to exceed 100,000 gpd. Once flushing is done and start up occurs no discharge from the Adiabatic closed system should occur unless during maintenance activities while the expected discharge/blowdown from the non contact system except during maintenance activities is depicted in the table above. Flow meters will be added to the system to document flow rates into sewer for all activities. We will also install sampling location(s) for performing wastewater monitoring. I have attached the O&M Manual for the towers**

- | 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 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: _____ | <input type="checkbox"/> | <input checked="" 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 Acct# 73070635 & 73070636

Private Well

Surface Water

a. Water Right Permit Number: _____

b. Legal Description of Water Source

_____ ¼S, _____ ¼E, _____, Section, _____ TWN, _____ R

2. Potable water use

a. Indicate total water use 4,200,000 gpy average under normal plant operations. During start up we will use an additional 105,000 gallons of water for system flushing and bring up.

Gallons per day (average) 12,000

Gallons per day (maximum) 20,200

b. Is water metered?

YES NO

SECTION E. WASTEWATER INFORMATION

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

Intake: Two water meters

Effluent No outflow measuring device currently but will install a flow meter & port on drain header to measure flow & perform grab sample before water goes into new sewer line.

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.

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 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	
	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	
	Sodium				EPA 200.7	29/ µg/l	
	Sulfate				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 19 th , 20 th edition or EPA	Detection Limit/Quantitation Level
		Minimum	Maximum	Average			
	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
	Copper (total)					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:

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 <i>Azobenzene</i>)	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:

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.)

The current plan is to install a new 4-6" line from the southern yard and connect into the current sanitary sewer line located on our property. Since flow is so low we do not plan to install an in ground sampling location. We plan to provide a flow meter and grab sample location on the main system drain header to measure flow as well as grab a wastewater sample during blow down or system discharge. See Attachment F1

SECTION G. OTHER PERMITS

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

**Air Permit Dept of Ecology: Notice of Construction -Approval Order No. 24Q-E005;
AQPID No: A0250326**

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 - **On Site infiltration ponds**

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 type="checkbox"/> Scrap Metal | <input checked="" 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 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 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.

See 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.

We will be generating silane caustic scrubber wastewater (pH 12.5 with sodium silicate) that will be stored in a caustic waste tanks within a berm area and offloaded into a tanker truck in berm area for offsite hazardous waste disposal. Waste will not be generated until 1st or 2nd quarter of 2025. Current vendor for waste disposal is Graymar Environmental, 601 S Pioneer Way, Moses Lake WA 98837 Phone # 509-770-4456

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

Inside the site warehouse both anode powder precursor, off-spec powder and final product will be stored in supersacks. Process intermediates of the powder will be transported within sealed metal integrated bulk containers (IBC) to the various process tools located both inside the building as well as outside in the southern part of our property. The fresh NaOH used for our caustic scrubber as well as the scrubber wastewater will stored in tanks located in berm areas in southern yard.

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:

*Dunes WWTF
1801 Road K SE
Moses Lake, WA 98837*

Treatment Works Owner: *City of Moses Lake*

Street: *PO Box 1579*

City/State: *Moses Lake WA* Zip: *98837*

[Signature] *4/3/2024* *Wastewater Manager*
Signature of Treatment Works Authority Date Title

Chris Campbell
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: _____

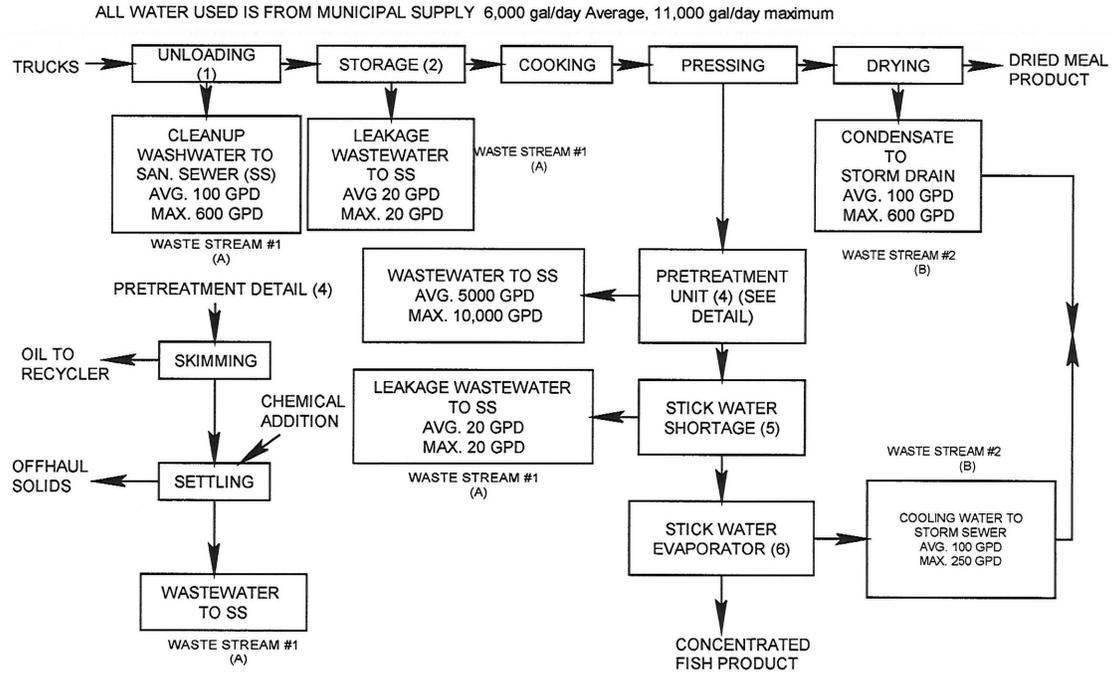
Street: _____

City/State: _____ Zip: _____

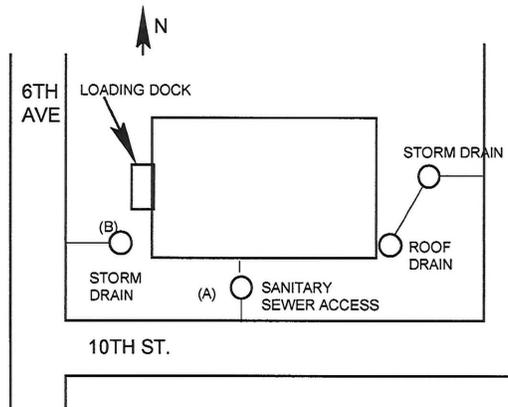
Signature of Sewer System Authority Date Title

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 and 40 CFR parts 405-471).

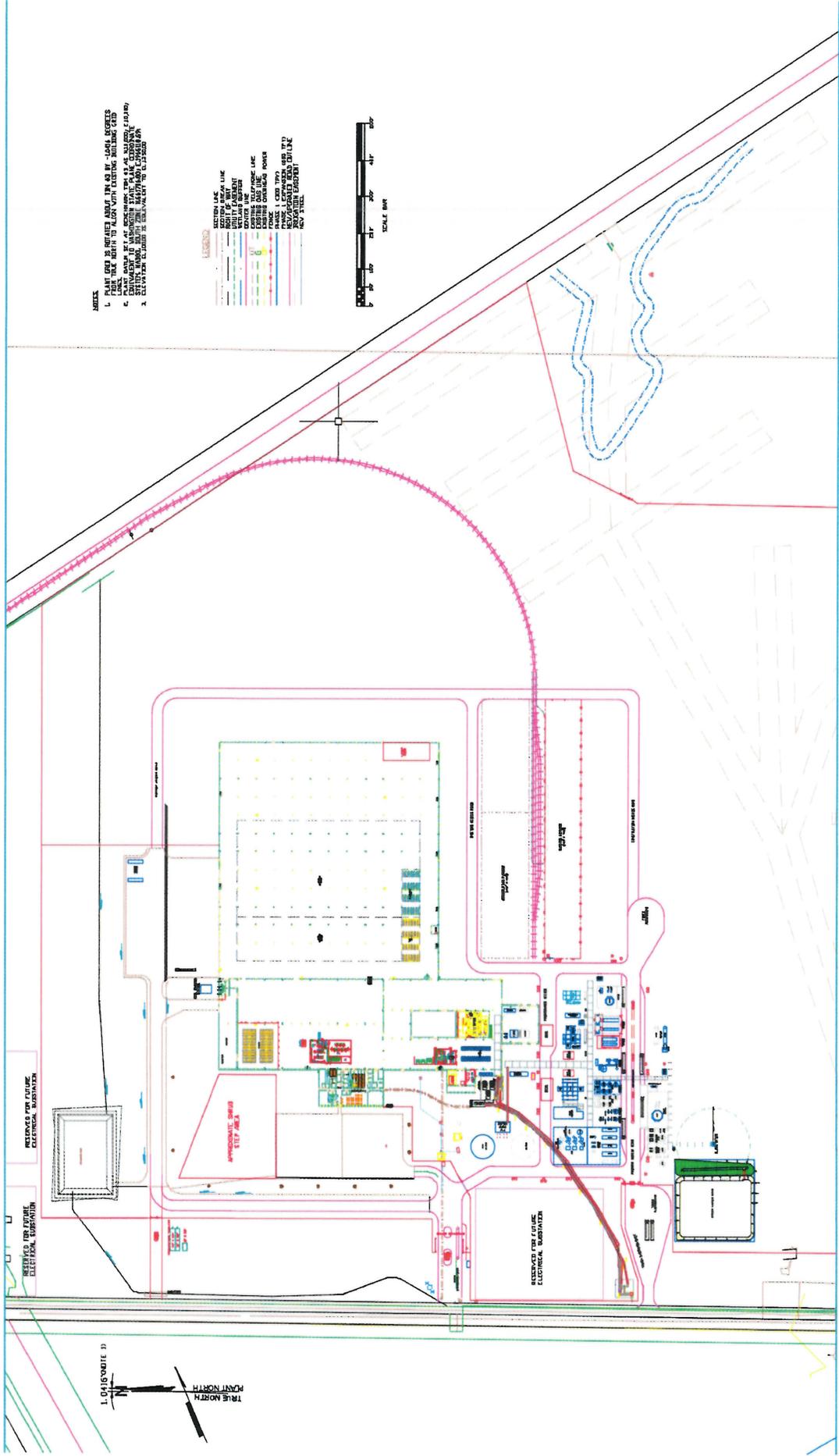
Summary of Attachments That May be Required for This Application:

(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.

Attachment F1: Facility Site Map



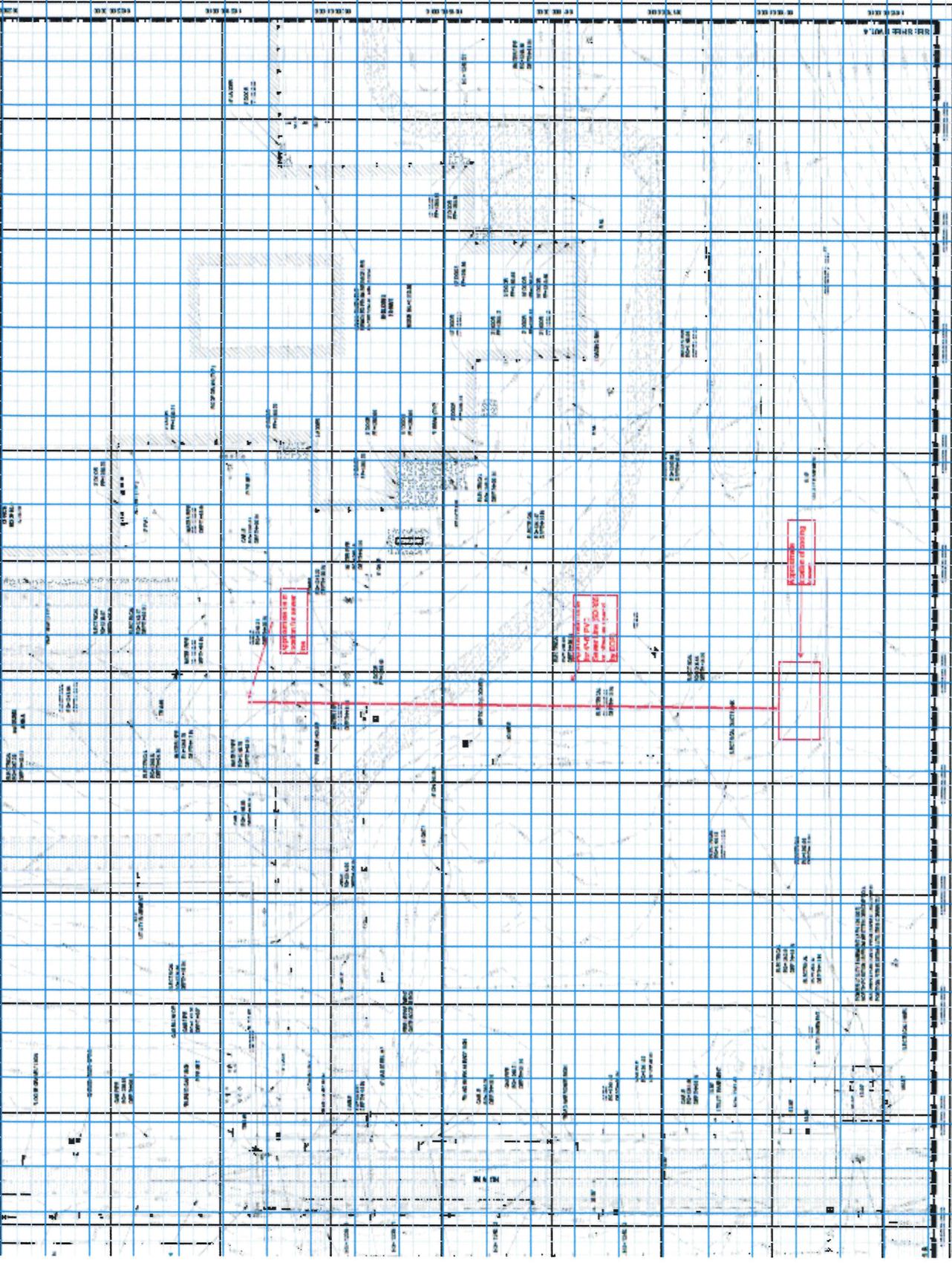
Attachment F1: Proposed New Industrial Sewer Line



NO.	DATE	DESCRIPTION
1	11/15/2011	ISSUED FOR PERMIT
2	01/10/2012	REVISED TO ADD PROPOSED SEWER LINE
3	03/20/2012	REVISED TO ADD PROPOSED SEWER LINE
4	05/15/2012	REVISED TO ADD PROPOSED SEWER LINE
5	07/10/2012	REVISED TO ADD PROPOSED SEWER LINE
6	09/05/2012	REVISED TO ADD PROPOSED SEWER LINE
7	11/01/2012	REVISED TO ADD PROPOSED SEWER LINE
8	01/05/2013	REVISED TO ADD PROPOSED SEWER LINE
9	03/01/2013	REVISED TO ADD PROPOSED SEWER LINE
10	05/01/2013	REVISED TO ADD PROPOSED SEWER LINE
11	07/01/2013	REVISED TO ADD PROPOSED SEWER LINE
12	09/01/2013	REVISED TO ADD PROPOSED SEWER LINE
13	11/01/2013	REVISED TO ADD PROPOSED SEWER LINE
14	01/01/2014	REVISED TO ADD PROPOSED SEWER LINE
15	03/01/2014	REVISED TO ADD PROPOSED SEWER LINE
16	05/01/2014	REVISED TO ADD PROPOSED SEWER LINE
17	07/01/2014	REVISED TO ADD PROPOSED SEWER LINE
18	09/01/2014	REVISED TO ADD PROPOSED SEWER LINE
19	11/01/2014	REVISED TO ADD PROPOSED SEWER LINE
20	01/01/2015	REVISED TO ADD PROPOSED SEWER LINE
21	03/01/2015	REVISED TO ADD PROPOSED SEWER LINE
22	05/01/2015	REVISED TO ADD PROPOSED SEWER LINE
23	07/01/2015	REVISED TO ADD PROPOSED SEWER LINE
24	09/01/2015	REVISED TO ADD PROPOSED SEWER LINE
25	11/01/2015	REVISED TO ADD PROPOSED SEWER LINE
26	01/01/2016	REVISED TO ADD PROPOSED SEWER LINE
27	03/01/2016	REVISED TO ADD PROPOSED SEWER LINE
28	05/01/2016	REVISED TO ADD PROPOSED SEWER LINE
29	07/01/2016	REVISED TO ADD PROPOSED SEWER LINE
30	09/01/2016	REVISED TO ADD PROPOSED SEWER LINE
31	11/01/2016	REVISED TO ADD PROPOSED SEWER LINE
32	01/01/2017	REVISED TO ADD PROPOSED SEWER LINE
33	03/01/2017	REVISED TO ADD PROPOSED SEWER LINE
34	05/01/2017	REVISED TO ADD PROPOSED SEWER LINE
35	07/01/2017	REVISED TO ADD PROPOSED SEWER LINE
36	09/01/2017	REVISED TO ADD PROPOSED SEWER LINE
37	11/01/2017	REVISED TO ADD PROPOSED SEWER LINE
38	01/01/2018	REVISED TO ADD PROPOSED SEWER LINE
39	03/01/2018	REVISED TO ADD PROPOSED SEWER LINE
40	05/01/2018	REVISED TO ADD PROPOSED SEWER LINE
41	07/01/2018	REVISED TO ADD PROPOSED SEWER LINE
42	09/01/2018	REVISED TO ADD PROPOSED SEWER LINE
43	11/01/2018	REVISED TO ADD PROPOSED SEWER LINE
44	01/01/2019	REVISED TO ADD PROPOSED SEWER LINE
45	03/01/2019	REVISED TO ADD PROPOSED SEWER LINE
46	05/01/2019	REVISED TO ADD PROPOSED SEWER LINE
47	07/01/2019	REVISED TO ADD PROPOSED SEWER LINE
48	09/01/2019	REVISED TO ADD PROPOSED SEWER LINE
49	11/01/2019	REVISED TO ADD PROPOSED SEWER LINE
50	01/01/2020	REVISED TO ADD PROPOSED SEWER LINE
51	03/01/2020	REVISED TO ADD PROPOSED SEWER LINE
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53	07/01/2020	REVISED TO ADD PROPOSED SEWER LINE
54	09/01/2020	REVISED TO ADD PROPOSED SEWER LINE
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58	05/01/2021	REVISED TO ADD PROPOSED SEWER LINE
59	07/01/2021	REVISED TO ADD PROPOSED SEWER LINE
60	09/01/2021	REVISED TO ADD PROPOSED SEWER LINE
61	11/01/2021	REVISED TO ADD PROPOSED SEWER LINE
62	01/01/2022	REVISED TO ADD PROPOSED SEWER LINE
63	03/01/2022	REVISED TO ADD PROPOSED SEWER LINE
64	05/01/2022	REVISED TO ADD PROPOSED SEWER LINE
65	07/01/2022	REVISED TO ADD PROPOSED SEWER LINE
66	09/01/2022	REVISED TO ADD PROPOSED SEWER LINE
67	11/01/2022	REVISED TO ADD PROPOSED SEWER LINE
68	01/01/2023	REVISED TO ADD PROPOSED SEWER LINE
69	03/01/2023	REVISED TO ADD PROPOSED SEWER LINE
70	05/01/2023	REVISED TO ADD PROPOSED SEWER LINE
71	07/01/2023	REVISED TO ADD PROPOSED SEWER LINE
72	09/01/2023	REVISED TO ADD PROPOSED SEWER LINE
73	11/01/2023	REVISED TO ADD PROPOSED SEWER LINE
74	01/01/2024	REVISED TO ADD PROPOSED SEWER LINE
75	03/01/2024	REVISED TO ADD PROPOSED SEWER LINE
76	05/01/2024	REVISED TO ADD PROPOSED SEWER LINE
77	07/01/2024	REVISED TO ADD PROPOSED SEWER LINE
78	09/01/2024	REVISED TO ADD PROPOSED SEWER LINE
79	11/01/2024	REVISED TO ADD PROPOSED SEWER LINE
80	01/01/2025	REVISED TO ADD PROPOSED SEWER LINE

SLA PLAT 2
TOPOGRAPHIC
SURVEY

V01.3



SECTION 10.00
10.00

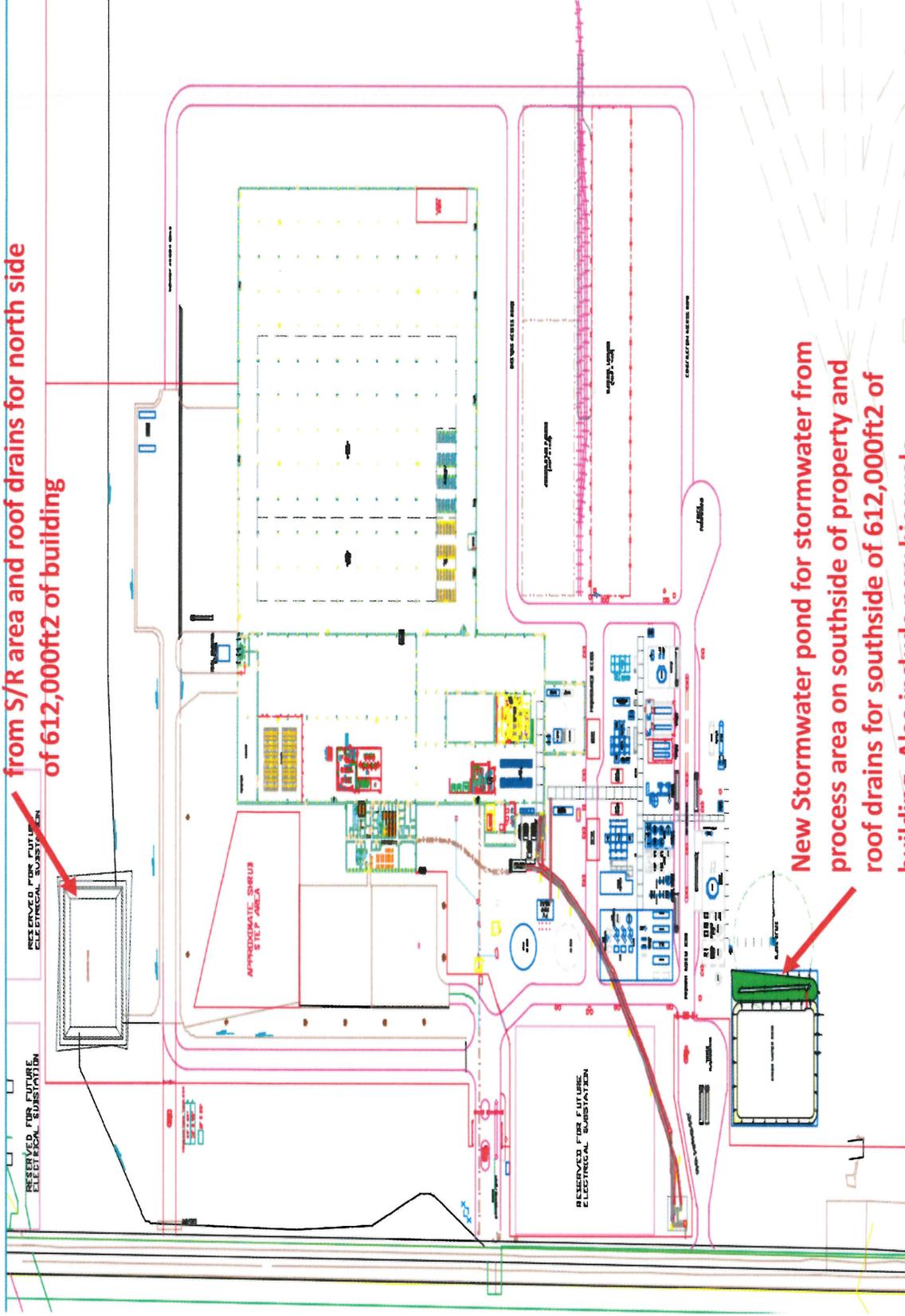
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SECTION 10.00
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SECTION 10.00
10.00

Attachment H5: Stormwater drainage map

Existing Stormwater pond for stormwater from S/R area and roof drains for north side of 612,000ft² of building



New Stormwater pond for stormwater from process area on southside of property and roof drains for southside of 612,000ft² of building. Also include new bioswale.