

US EPA ARCHIVE DOCUMENT

Regulatory Framework For Major Environmental Programs

Air:

Title V Air Operating Permit: As a major source of Criteria and hazardous air pollutants, as defined in 40 CFR 70, Puget Sound Naval Shipyard will be required to operate under a Title V Permit. This permit is currently being written by the Puget Sound Air Pollution Control Agency. Estimated effective date of this permit is August of 1998.

Opacity: Washington State Administrative Code requires that fugitive air emission sources have less than 20 % opacity at the point of generation. Opacity is the degree of obscuration of an object when viewed through a plume. This requirement applies to the plume created by cutting operations performed outside. (For the purposes of this rule Shipyard dry docks are considered structures which in turn makes the point of generation the, 'lip' of the dry dock.). Newer stationary sources must meet a 5% maximum opacity limit.

To comply with this regulation the Shipyard built two indoor cutting facilities complete with air emission control equipment. These indoor cutting facilities are used for all non-ferrous metals and steel with heavy coatings of paint, adhesive, grease or insulation. In addition, extra caution is used when cutting high. up in a dry dock.

The air pollution control requirements. of the Washington Administrative Code have generally been delegated to local agencies, such as the Puget Sound Air Pollution Control Agency, who then have oversight and enforcement authority.

Toxic Air Contaminants: 29CFR 1910 sub part Z limits the concentration of toxic air contaminants that a worker can be exposed to. Personnel monitoring indicates that permissible contaminate levels for Lead and Arsenic can be exceeded when cutting through steel coated with either copper anti-fouling or lead based paints.

To comply with this regulation the Shipyard implements full lead controls whenever cutting through lead based or copper anti-fouling paints. Full lead controls include air fed hood for the cutters and the establishment of lead work boundaries to keep other workers at a safe distance.

Additionally many registered stationary sources have individual permit conditions unique to a given piece of equipment.

Asbestos:

Regulatory Framework. Asbestos removal operations are regulated by the Puget Sound Air Pollution Control Agency regulation M. In general our asbestos operations are regulated like any other asbestos abatement operation. 'Me operations themselves tend to be unique due to the tight spar-es, the large volume of asbestos, restricted access, and the wide, variety of asbestos materials and components used in the construction of these vessels.

Identification: Prior to. beginning work an asbestos survey is done in the Ship or Building on systems, components, and material that is material".

Submarines that will be going through the recycle program are surveyed before any work is started using the "Naval Methodology" sampling strategy. The asbestos inspectors doing the sampling are trained and certified as Asbestos Hazard Emergency Response Act (AHERA) Building inspectors, per CFR 763 Subpart M, or are under the direction of a AHERA Building Inspector. The Naval Methodology sampling strategy lists the suspect materials that will need to be looked at such as, high temp piping insulation, bulkhead insulation, flooring, etc., and the amount of samples required.

Ships undergoing repair and overhaul are surveyed for asbestos using the AHERA protocol (trained in CFR 763) prior to arrival at the Shipyard. 'Me asbestos inspectors. doing the inspection are trained and certified as AHERA Building inspectors, per CFR 763 Subpart M. The CFR outlines the amount of samples required for TSI, surfacing material and miscellaneous material. The inspectors look at all suspect material and can either take a sample to prove the material is non-asbestos or assume the material is asbestos.

Removal: To remove material that has been identified as asbestos-containing the supervisor and workers involved in will be asbestos qualified and use asbestos controls to work with or remove the ACM.

Controls: Me level and type on control required will depend on the type or class of asbestos involved.
Examples:

Thermal system insulation (TSI) removal will, require Full Asbestos Training and engineering controls (HEPA vacuum, negative pressure enclosure, glove bag, PPE appropriate for the job).
Floor tile removal will require Limited Asbestos Training and engineering controls (HEPA vacuum, critical barriers, PPE appropriate for the job).

Disposal: After removal the asbestos-containing waste material (ACWM) will be double bagged in 6-mil (minimum) blue waste bags. The waste bags will have the following information: Asbestos Supervisor's name, asbestos worker's name, phone number, project that was worked, date of removal. The bags will be labeled with a "Danger Asbestos" label and the Shipyard's address. The bags will be taken to an approved asbestos Dumpster and the dumpster will then be taken to an approved land fill within 10 days from the date of removal.

Hazardous Waste:

Hazardous Waste (HW - Resource, Conservation and Recovery Act (RCRA) and the Washington State Dangerous Waste Regulations): Supplemental controls beyond those required by RCRA have been implemented in environmentally sensitive areas (i.e., Dry Docks, Piers, etc), to provide additional protection to the water of Puget Sound. PSNS has also chosen to internally review and solicit contractors for disposal of HW generated at the facility, including RW from ship recycling. Close review of disposal contracts/contractors is essential to ensure proper treatment/disposal of the unique types and volumes of HW generated from ship recycling. Additionally, the types and volumes of hazardous wastes generated from ship recycling, as well as which disposal contractor and how that contractor manages the waste, is reported annually to the Washington State Department of Ecology.

Enforcement of the Resource, Conservation and Recovery Act (RCRA) has been delegated to the Washington State Department of Ecology, and is implemented under Washington Administrative Code 173-303. This Code governs the management of all RCRA Hazardous Wastes as well as Washington State Dangerous and Extremely Hazardous Waste generated at Puget Sound Naval Shipyard. To fully comply with this regulation and to protect workers and the environment, PSNS has taken the following approach to managing Hazardous Waste (this term is used to include Washington State Dangerous and Extremely Hazardous Waste) from ship recycling:

Identification: For each class of ship recycled, PSNS develops a "Common Shipboard Hazardous Materials Matrix" to identify Hazards, potential sources, sampling requirements, and handling requirements of materials encountered during recycling operations. This matrix is used to identify where Hazardous Waste (HW) will be generated, or when to sample to determine if HW will be generated. With this information, HW can be properly managed and removed from the ship for temporary storage or accumulation at or near the work site.

Accumulation: Accumulation or Storage of HW is only allowed in designated and registered area in the Shipyard. At the end of each working shift all RW generated is placed into an accumulation area to ensure that it is properly managed, controlled, and entered into the HW tracking system. Accumulation in Dry Docks, Piers, and other "Over-the-Water" areas may have special controls and requirements (i.e., secondary containment security, etc.) if the type/form of the waste poses additional risks to the waters of Puget Sound. After sufficient quantities, or after completing the job, HW is transferred from the Accumulation Areas to the on site Interim Status Storage Facility (RCRA permitted storage facility) for inspection/preparation for shipment off site to the HW disposal contractor.

Disposal: After properly packaging and manifesting, HW is sorted off site by private contractors for treatment and/or disposal. Disposal contractors are carefully reviewed and investigated by PSNS not only from a competitive stand point but also to ensure that they are legitimate, solvent, capable, and permitted to manage our HW. These contracts are reviewed and renewed every 1 - 3 years.

Tracking: From the point of Accumulation to Final Disposal, PSNS maintains a detail inventory and tracking database of each and every container of HW generated. This information includes an immense amount of data including the type of waste, container, unique bar-code, weight, waste designation, date generated, date disposed, current location, etc. Data from this database is used to generate shipping manifests, annual reports, b@ charges, etc.

Polychlorinated Biphenyl:

Regulatory Frame Work.- The Shipyard's PCB program is regulated by the EPA. Puget Sound Naval Shipyard is recognized by the Navy, DoD and the Environmental Protection Agency as a leader in the control and disposal of Polychlorinated Biphenyl (PCBs). The scope of the Shipyard's PCB program is unparalleled at any Navy facility. The Shipyard has identified many uses of PCB that are unique to the Navy and developed strategies to control and safely dispose of them.

The Shipyard has developed a relationship with the TSCA regulators both at the local and national levels. These relationships have allowed the Navy to have a voice in proposed legislation. The Shipyard was also part of the Environmental Leadership Program where we worked with the local region and permitted the destruction of PCBs. The purpose of this destruction was to facilitate the study of the off gasses from some of the Navy's unique sources of PCBs. Our in depth knowledge and proactive management of PCBs has earned Puget Sound Naval Shipyard a great deal of respect throughout the regulated community and the Navy.

Water:

Regulatory Frame Work. Federal Facilities in the State of Washington are currently regulated by the EPA for NPDES issues. The NPDES program controls pollutant levels from direct discharges to navigable waters, including dry dock and storm water discharges, via an NPDES permit. The NPDES permit includes discharge limits for pollutants known or of having a high potential for discharge from a given facility. The Washington Department of Ecology has regulatory oversight for Shipyard, discharges to the sanitary sewer.

NPDES Permit Limits: Puget Sound Naval Shipyard's current NPDES permit contains discharge limits from dry dock discharges for Copper and Oil and Grease. Oil and Grease levels have been in the acceptable range since they were put in place at the beginning of this permitting period. In order to comply with the Copper discharge limits the Shipyard spends an estimated 2 million dollars per year removing copper bearing dust from dry dock floors. In addition the Shipyard is in the process of modifying its dry docks to include systems designed to catch and treat, (if necessary), surface water run off.

State Waste Discharge Limits: Puget Sound Naval Shipyard's State Waste Discharge Permit contains limits for discharges from the shipyard to the sanitary sewer. Regulated discharges and their related permit conditions are shown in the table below:

WDOE NAVY SMPL POINT NMB R	NAVY SAMPLE POINT NUMBER	POLLUTANT PARAMETER	MONTHLY AVERAGE	DAILY MAXIMUM	SAMPLING FREQUEN CY	SAMPLE TYPE
1	910-871-001	Building 871 Industrial Pretreatment				
		Flow (gpd)	N/A	82000	Each Batch	Dip Stick
		Cadmium(mg/L)	0.17	0.17	Each Batch	Composite
		Chromium(mg/L)	1.7	2.77	Each Batch	Composite
		Copper(mg/L)	2.07	3.38	Each Batch	Composite
		Lead(mg/L)	0.43	0.69	Each Batch	Composite
		Mercury(mg/L)	0.1	0.1	Once/3 Months	Composite
		Nickel(mg/L)	2.38	3.2	Each Batch	Composite
		Silver(mg/L)	0.24	0.43	Each Batch	Composite
		Zinc(mg/L)	1.48	2.61	Each Batch	Composite
		TTO(mg/L)	N/A	2.13	Once/3 Months	Composite
		Tin(mg/L)	N/A	N/A	Once/3 months	Composite
		Cyanide(T)(mg/L)	0.6	0.6	Once/3 months	Composite
		PCB's	N/A	5.2	Once/3 months	Composite
2	910-871-002	Building 871 Industrial Pretreatment Cyanide				
		Flow(gpd)	N/A	30000	Once/3 months	Dip Stick
		Cyanide(mg/L)	0.65	1.2	Once/3 months	Grab
3	260-DD6-001	Bilgewater System at Drydock #6-40GPM				
		Flow(gpd)	N/A	43,200	Monthly	Meter
		Cadmium(mg/L)	0.17	0.17	N/A	Composite
		Chromium(mg/L)	5	5	Monthly	Composite
		Copper(mg/L)	5.2	5.2	Monthly	Composite

Lead(mg/L)	1.3	1.3	Monthly	Composite
Nickel(mg/L)	3.2	3.2	Monthly	Composite
Silver(mg/L)	2	2	N/A	Composite
Zinc(mg/L)	5	5	Monthly	Composite
TTO(mg/L)	2.13	N/A	Once/3 Months	Composite
Tin(mg/L)	N/A	N/A	Once/3 Months	Composite
TPH(@g/L)(G &D)	N/A	100	Once/3 Months	Grab

4 260-DD2-001 Bilgewater System W of Drydock #2- 40GPM

Flow(gpd)	N/A	43,200	Monthly	Meter
Cadmium(mg/ L)	0.17	0.17	N/A	Composite
Chromium(mg /L)	5	5	Monthly	Composite
Copper(mg/L)	5.2	5.2	Monthly	Composite
Lead(mg/L)	1.3	1.3	Monthly	Composite
Nickel(mg/L)	3.2	3.2	Monthly	Composite
Silver(mg/L)	2	2	N/A	Composite
Zinc(mg/L)	5	5	Monthly	Composite
TTO(mg/L)	2.13	N/A	Once/3 Months	Composite
Tin(mg/L)	N/A	N/A	Once/3 Months	Composite
TPH(mg/L)(G &D)	N/A	1 00	Once/3 Months	Grab

5 260-DOI-001 Bilgewater System W of Drydock#1 - 40GPM

Flow(gpd)	N/A	43,200	Monthly	Meter
Cadmium(mg/ L)	0.17	0.17	N/A	Composite
Chromium(m /L)	5	5	Monthly	Composite
Copper(ing/L)	5.2	5.2	Monthly	Composite
Lead(mg/L)	1.3	1.3	Monthly	Composite
Nickel(mg/L)	3.2	3.2	Monthly	Composite
Silver(mg/L)	2	2	N/A	Composite
Zinc(Tg/L)	5	5	Monthly	Composite
TTO(mg/L)	2.13	N/A	Once/3 Months	Composite
Tin(mg/L)	N/A	N/A	Once/3 Months	Composite
TPH(mg/L)(G &D)	N/A	1 00	Once/3 Months	Grab

6 260-Pier 0-001 Bilgewater System Located East of Pier D-40 GPM

Flow(gpd)	N/A	43,200	Monthly	Meter
Cadmium(mg/L)	0.17	0.17	N/A	Composite
Chromium(mg/L)	5	5	Monthly	Composite
Copper(mg/L)	5.2	5.2	Monthly	Composite
Lead(mg/L)	1.3	1.3	Monthly	Composite
Nickel(mg/L)	3.2	3.2	Monthly	Composite
Silver(mg/L)	2	2	N/A	Composite
Zinc(mg/L)	5	5	Monthly	Composite
TTO(mg/L)	2.13		N/A	Once/3 Months Composite
Tin(mg/L)	N/A		N/A	Once/3 Months Composite
TPH(mg/L)(G &D)	N/A		1 00	Once/3 Months Grab,

7 260-Pier3-001 Bilgewater System Located at Pier 3-1 OOGPM

Flow(gpd)	N/A	86,400	Monthly,	Meter
Cadmium(mg/L)	0.17	0.17	N/A	Composite
Chromium(mg/L)	5	5	Monthly	Composite
Copper(mg/L)	5.2	5.2	Monthly	Composite
Lead(mg/L)	1.3	1.3	Monthly	Composite
Nickel(mg/L)	3.2	3.2	Monthly	Composite
Silver(mg/L)	2	2	N/A	Composite
Zinc(mg/L)	5	5	Monthly	Composite
TTO(mg/L)	2.13	N/A	Once/3 Months	Composite
Tin(ingL)	N/A	N/A	Once/3 Months	Composite
TPH(mg/L)(G &D)	N/A	1 00	Once/3 Months	Grab

8 38-58-002 02IN2 System Rinsewater TO BUILDING 871 no sampling requirement

9 38-58-003 Cleaning with Non-Ionic Detergents
 Flow(gpd) N/A 1 000 N/A N/A
 no sampling requirement

10 42-107-002 Hydrotest/Flux Flush Bench& TSP Flux
 Flush

Flow(gpd)	N/A	21 000	N/A	N/A
Cu	5.2	5.2	once/3 months	Grab
Pb	1.3	1.3	once/3 months	Grab

note: Testing is. required for TSP flux flush portion of flow only.
 The maximum permitted flow for flux flush is 2000 gpd.

11	56-107-008	Hose Flush Utility Sink Flow(gpd) no sampling requirement	N/A	60	N/A	N/A
12	56-107-012	Hydrotest Flush Water Flow(gpd) no test no sampling requirement	N/A	30	N/A	N/A
13	56-107-020	Steamcleaning of Wax from Bent Pipes and 12) Flow(gpd) no sampling requirement	N/A	1 000	N/A	N/A
14	56-107-021	High Pressure Pipe Test Stand Flow(gpd)	N/A	50	N/A	N/A
15	57-107-001	Washdown Deck of Lagging Removal Area Flow(gpd) PCB(ug/L)	N/A 1 5	2200 15	N/A Once/- 3 months	N/A Grab
<p>The interim limitation for PCB's is 120 micrograms per liter. The final limitation for PCB's of 15.0 micrograms per liter shall become effective two years following issuance of this permit.</p>						
16	37-147-001	Metallurgical Sample Grinding Flow(gpd) no sampling requirement	N/A	1	N/A	N/A
17	37-147-002-	Ingot Cooling Wastewater Flow(gpd) no sampling requirement	N/A	500	N/A	N/A
18	135-147-001	X-Ray Development Rinsewater Flow(gpd) Silver(mg/L)	N/A 2	3000 2	N/A once/3 months	N/A Grab
<p>The interim limitation for silver is 17.0 milligrams per liter. The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.</p>						
19	67-290-001	Electronics Parts Washing				

		Flow(gpd)	N/A	50	N/A	N/A
		Lead(mg/L)	1.3	1.3	N/A	Grab
		no sampling requirement				
20	134-371-004	Metallurgical Sample Salt Bath	BATCH DISCHARGE TWICE PER YEAR			
		Flow(gpd)	N/A	10	N/A	N/A
		no sampling requirement				
21	31-427-0-01	Rotocione Aircleaner for Plastic Cutting/Grinding				
		Flow(gpd)	N/A	300	N/A	N/A
		no sampling requirement				
22	31-427-002	Rotocione Aircleaner for Metal/Plastic Cutting				
		Flow(gpd)	N/A	300	N/A	N/A
		no sampling requirement				
23	31-427-003	Plastic Part Cutting Saw Coolant /Dust Water				
		Flow(gpd)	N/A	50	N/A	N/A
		no sampling requirement-				
24	51-427-001	Freedom Kleen Parts Wash/Rinse Water				
		Flow(gpd)	N/A	50	N/A	N/A
		no sampling requirement				
25	06/99-431-001	Ultrasonic Cleaner for Small Parts				
		Flow(gpd)	N/A	5	N/A	N/A no sampling requirement
26	06/99-431-003	Ink Pen Ultrasonic Cleaner				
		Flow(gpd)	N/A	5	N/A	N/A
		no sampling requirement\				
27	06199-431-004	Gauge Leak Tester				
		Flow(gpd)	N/A	65	N/A	N/A
		no sampling required				
28	06/99-431-005	Tool Production Quench Bucket				
		Flow(gpd)	N/A	5	N/A	N/A
		no sampling requirement				
29	06/99-431-006	Pump Repair and Air Conditioning Operations				
		Flow(gpd)	N/A	50	N/A	N/A
		no sampling required				

38 67-431-510- Circuit Board Dish
 005 Washers
 Flow(gpd) N/A 200 N/A N/A
 Lead(mg/L) 1.3 1.3 N/A N/A

no sampling requirement

39 67-431-GAUGE Gauge Cleaning Sink
 ROOM-006 Flow(gpd) N/A 40 N/A N/A

no sampling requirement

40 135-431-203- Photo Developer Parts
 001 Cleaning
 Flow(gpd) N/A 40 N/A N/A
 no sampling requirement

41 135-431-203- X-Ray Developer Rinse
 002
 flow N/A 1 000 N/A N/A
 Silver(mg/L) 2 2 once/3 Grab
 months

The interim limitation for silver is 17.0 milligrams per liter.
 The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.

42 51-435-001 Braze Flux Wash Sink
 Flow(gpd) N/A 20 N/A N/A no sampling requirement

43 1113-435-001 Shipyard Cafeteria Sinks
 Flow(gpd) N/A 2200 N/A N/A no sampling requirement

44 1113-435-002 Shipyard Cafeteria Commercial INCLUDED IN CAFETERIA SINK FLOW
 Washer ABOVE
 Flow/(gpd) N/A FLOW INCLUDED IN 1113-435-
 001
 no sampling requirement

45 820-437-001 Auto Parts Washing
 Flow(gpd) N/A 200 N/A N/A no sampling requirement

46 06/99-431-002 High Pressure Hose
 Flushing -
 Flow(gpd) N/A 12 N/A N/A no sampling requirement

47 06-452-001 Respirator/Apparel/Face Shield Wash

		Flow(gpd)	N/A	600	N/A	N/A no sampling requirement
48	06-452-002	High Pressure Hose Flushing				
		Flow(gpd)	N/A	20	N/A	N/A
		no sampling requirement				
49	37-452-001	Forge Shop Quench Water				
		Flow(gpd)	N/A	1 00	N/A	N/A
		no sampling requirement				
60	37-452-002	Non contact Furnace Fans	Cooling Water for			
		Flow(gpd)	N/A	50000	N/A	N/A
		no sampling requirement				
51	02-455-001	Mechanical Car Wash				
		Flow(gpd)	N/A	1200	N/A	N/A.
		no sampling requirement				
52	02-455-004	H6nd Car Wash				
		Flow(gpd)	N/A	600	N/A	N/A
		no sampling requirement				
53	98-455-001	Crane Parts Cleaning	Steam			
		Flow(gpd)	N/A	4000	N/A	N/A
		no -sampling requirement				
54	57-457-001	Lagging Cement Sink				
		Flow(gpd)	N/A	60	N/A	N/A
		no sampling requirement				
55	71-457-001	Titanium/SS/Monel Quench Tank				
		Flow(gpd)	N/A	90	N/A	N/A
		no sampling requirement				
56	71-457-002	Varnish Room Belt Sander				
		Flow(gpd)	N/A	20	N/A	N/A
		no sampling requirement				
57	71-457-003	Varnish Room Glass				

		Cutoff Saw Flow(gpd) no sampling	N/A	50 requirement	N/A	N/A
58	71-457-004	Silk Screen Flow(gpd) no sampling	Washing N/A	1 00 requirement	N/A	N/A
59	26-460-001	Gas Hose Leak Test Tank Flow(gpd) no sampling	N/A	10 requirement	N/A	N/A
60	06/99-462-001	Regulator/Hose Test Condensate Flow(gpd) no sampling	Steam N/A	1 00 requirement	N/A	N/A
61	06/99-462-002	Braze Quench Sink Flow(gpd) no sampling	N/A	1 00 requirement	N/A	N/A
62	06/99-462-003	Plumbing Valve Sterilization Trough Flow(gpd) no sampling	N/A	100 requirement	N/A	N/A
63	06/99-462-004	High Pressure Hose Test /Sterilize Trough Flow(gpd) no sampling	N/	400 requirement	N/A	N/A
64	06/99-462-005	Grade A Pure Water Hose Washing Flow(gpd) no sampling	N/A	400 requirement	N/A	N/A
65	06/99-462-006	HP Air Compressor Filter Ultrasonic Cleaning Flow(gpd) no sampling	N/A	10 requirement	N/A	N/A
66	67-466-001	Electronic Parts Rinser Flow(gpd) no sampling	N/A	5 requirement	N/A	N/A

67	37-469-001	Propeller Dye Penetrant Testing	Flow(gpd)	N/A	75	N/A	N/A	
								no sampling requirement
68	06-495-001	Welding- Equipment Filter Ultrasonic Cleaning	Flow(gpd)	N/A	50	N/A	N/A	
								no sampling requirement
69	67-500-001	Sonar Cleaning Soak Tank	Flow(gpd)	N/A	1 00	N/A	N/A	
								no sampling requirement
70	67-500-002	Sonar Hydratest Tank	Flow(gpd)	N/A	600	N/A	N/A	
								no sampling requirement
71	500-502-001	Industrial Clothes Washers	Flow(gpd)	N/A	1 1 000		N/A	N/A
								no sampling requirement
72	500-502-002	Developer from Noritsu Developing Machine	Flow(gpd)	N/A	10	N/A	N/A	
								no sampling requirement
73	500-502-003	Fixer from Noritsu Developing Machine	Flow(gpd)	N/A	10	N/A	N/A	
								no sampling requirement
.74	820-502-001	Cafeteria Automatic Dishwasher	Flow(gpd)	N/A	600	N/A	N/A	
								no sampling requirement
75	820-502-002	Latex Paint Brush Cleaning Sink	Flow(gpd)	N/A		N/A	N/A	
								no sampling requirement
76	820-502-005	Latex Paint Brush Cleaning. Sink	Flow(god)	N/A	200	N/A	N/A	
								no sampling requirement

77	NDC-506-001	X-Ray Film Developer			
	Flow(gpd)	N/A	1 00	N/A	N/A
	Silver(mg/L)	2	2	N/A	N/A

The interim limitation for silver is 17.0 milligrams per liter.
 The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.
 no sampling requirement

78	1326-530-001	Reproolith Developer RINSEWATER & FIXER/DEVELOPER SEPARATE			
	Flow(gpd)		50	N/A	N/A
	Silver(mg/L)	2	2	N/A	N/A

The interim -limitation for silver is 17.0 milligrams per liter.
 The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.
 no sampling requirement

79	1326-530-002	Varityper Developer R(NSEWATER & FIXER/DEVELOPER SEPARATE			
	Flow(gpd)	N/A	50	N/A	N/A
	Silver(mg/L)	2	2	N/A	N/A
	Copper(mg/L)	5.2	5.2	N/A	N/A
	Zinc(mg/L)	5	5	N/A	N/A

The interim limitation for silver is 17.0 milligrams per liter.
 The final limitation of
 2.0 milligrams per liter shall become effective two years after issuance of this permit.
 no sampling requirement

80	953-818-001	Air Compressor Heat Exchanger			
	Flow(gpd)	N/A	1 000	N/A	N/A
	no sampling requirement				

81	1385-850-207-	Photoprocessing Machines 003			
	Flow(gpd)	N/A	1	N/A	N/A
	Silver(mg/L)	2	2	N/A	N/A

The interim limitation for silver is 17.0 milligrams per liter.
 The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.
 no sampling requirement

82 203-850A-001 Film

Processor					
Flow(gpd)	N/A	1 00	N/A	N/A	
Silver(mg/L)	2	2	N/A	N/A	

The interim limitation for silver is 17.0 milligrams per liter.
 The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.
 no sampling requirement

83 203'850A-002 Color Paper Developer

Flow(gpd).	N/A	1200	N/A	N/A
Silver(mg/L)	2	2	once/6 months	Grab

The interim limitation for silver is 17.0 milligrams per liter.
 The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.

84 203-850A-003 Black and White Developer

Flow(gpd)	N/A	250	N/A	N/A
Silver(mg/L)	2	2	N/A	N/A

The interim limitation for silver is 17.0 milligrams per liter.
 The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.
 no sampling requirement

85 203-850A-004 Color Paper Developer

Flow(gpd)	N/A	1200	N/A	N/A
Silver(mg/L)	2	2	once/6 months	Grab

The interim limitation for silver-is 17.0 milligrams per liter. The final limitation of 2.0 milligrams per liter shall- become effective two years after issuance of this permit.

86 56-856-001 Pipe/Pump Test Sump

Flow(gpd)	N/A	100	N/A	N/A
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no sampling requirement

87 90-856-001 Braze Flux Flush

Flow(gpd)	N/A	1 800	N/A	N/A
Copper(mg/L)	51.2	5.2	once/6 months	Grab
Chromium(mg)	5	5	once/6 months	Grab
Lead(mg/L)	1.3	1.3	once/6 months	Grab
Nickel(mg/L)	3.2	3.2	once/6 months	Grab.

	Zinc(mg/L)	5	5	once/6 months	Grab
88 90-856-002	TSP Pipe Cleaning Rinsewater				
	Flow(gpd)	N/A	2000	N/A	N/A
	Copper(mg/L)	5.2	5.2	once/6 months	Grab
	Chromium(mg/L)	5	5	once/6 months	Grab
	Lead(mg/L)	1.3	1.3	once/6 months	Grab
	Nic.kel(mg/L)	3.2	3.2	once/6 months	Grab
	Zinc(mg/L)	5	5	once/6 months	Grab
89	90-856-003 Ultrasonic Parts Cleaner				
	Flow(gpd)	N/A	20	N/A	N/A
	no sampling requirement				
90 17-857-001	Aluminum Passivation Oakite Degreaser as haz waste				
	no sampling requirement				
91	17-867-002 Passivation Hot Water.				
	Rinse				
	Flow(gpd)	N/A	600	N/A	N/A
	Cadmium(mg/L)	0.17	0.17	once/3 months	Grab
	Chromium(mg/L)	1.71	2.77	once/3 months	Grab
	Copper(mg/L)	2.07	3.38	once/3 months	Grab
	Lead(mg/L)	0.43	0.69	once/3 months	Grab
	Nickel(mg/L)	2.38	3.2	once/3 months	Grab
	Zinc(mg/L)	1.48	2.67	once/3 months	Grab
	TTO(mg/L)	N/A	2.13	N/A	Grab
	Cyanide(T)	0.6	0.6	once/3 months	Grab

note: TTO certification statement required.in lieu of sampling for TTO

92	17-857-007	Passivation	Hot	Water	
		Rinse			
		Flow(gpd)	N/A	600	N/A N/A
		Cadmium(mg/L)	0.17	0.17	once/3 months Grab
		Chromium(mg/L)	1.71	2.77	once/3 months Grab
		Copper(mg/L)	2.07	3.38	once/3 months Grab
		Lead(mg/L)	0.43	0.69	once/3 months Grab
		Nickel(mg/L)	2.38	3.2	once/3 months Grab
		Zinc(mg/L)	1.48	2.67	once/3 months Grab
		TTO(mg/L)	N/A	2.13	once/3 months Grab
		Cyanide(T)(mg/L)	0.6	0.6	once/3 months Grab

note: TTO certification statement required in lieu of testing for TTO

93	1 7-857-010	Photographic	Development	Baths	
		Rinsewater			
		Flow(gpd)	N/A	100	N/A N/A
		Silver(mg/L)	2	2	N/A N/A

The interim limitation for silver is 17.0 milligrams per liter.
 The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.
 no sampling requirement

94	ROTO-1 7-857@	Rotoclone, East Side Building 857-			
	001	Photo related			
		Flow(gpd)	N/A	3000	N/A N/A no sampling requirement

95	ROTO-1 7-857-	Rotoclone-West Side of Building 857-acid/base			
	002	related			
		Flow(gpd)	N/A	3000	N/A N/A
		no sampling			requirement

96	ROTO-1 7-857-	Rotoclone West Side of Building 857			
	003				
		Flow(gpd)	N/A	3000	N/A N/A
		no sampling			requirement

97	820-864-001	Food Service Automatic Dishwasher			
		Flow(gpd)	N/A	1 000	N/A N/A
		no sampling			requirement

98	800,865-001	Clothes Washers	Flow(gpd) no sampling	N/A	1 1 000 requirement	N/A	N/A
99	815-866-001	Food Grinder	Flow(gpd) no sampling	N/A	200 requirement	N/A	N/A
100	815-866-002	Mass Hall Industrial Dishwasher	Flow(gpd) no sampling	N/A		N/A	N/A
101	71-873-001	Steam Condensate Sump	Flow(gpd) no sampling	N/A	20 requirement	N/A	N/A
102	71-873-002	Buffer/Bandsaw Rotocione	Flow(gpd)	N/A	50	N/A	N/A
103	03-874-001	Paper Shredder Dust Suppression Water	Flow(gpd) no sampling	N/A	200 requirement	N/A	N/A
104	03-874-002	Hazardous Waste Tank Area	Rainwater Flow(gpd) TTO(mg/L)	N/A N/A	6000 2.13	N/A once/6 months	N/A Grab
10.5	03-874-003	Drum Storage Area Stormwater	Flow(gpd) no sampling	N/A	2000 requirement	N/A	N/A
106	99-875-001	Sewage/CHT Hose Cleaning	Flow(gpd). no sampling	N/ A	1 0000 requirement	N/A	N/A
107	99-875-002	Hose Pressurc Test Manifold	Flow(gpd)	N/A	15000	N/A	N/A

no sampling requirement

108 57-879-001 Lagging Cement Tool Cleaning Sink
 Flow(gpd) N/A 50 N/A N/A
 no sampling requirement

109 800-885-001 Industrial Clothes Washers
 Flow(gpd) N/A 8300 N/A N/A
 no sampling requirement

110 57-893-001 Cement Lagging Tool
 Cleaning
 Flow(gpd) N/A 50 N/A N/A
 no sampling requirement

111 992-900-001 Air Compressor Cooling Tower
 Slowdown
 Flow(gpd) N/A 300 N/A N/A
 Copper(mg/L)

112 992-900-002 Diesel Generator Cooling Tower
 Slowdown
 Flow(gpd) N/A 5000 N/A N/A
 Zinc(mg/L) 5 5 N/A N/A
 Copper(mg/L) 5.2 5.2 N/A N/A
 no sampling requirement

113 953-923-001 Air Compressor Cooling
 Water
 Flow(gpd) N/A 350 N/A N/A
 Zinc(mg/L) 5 5 N/A N/A
 Copper(mg/L) 5.2 5.2 N/A N/A
 no sampling requirement

114 063-940-LAB- Coulter Blood Cell Counter
 001
 Flow(gpd) N/A 1 N/A N/A
 no sampling requirement

115 063-940-213- Hydrocollator Sterilization
 001
 Flow(gpd) N/A 5 N/A N/A
 no sampling requirement

116 063-940-213- Small Hydrocollator
 002 Sterilization
 Flow(gpd) N/A 1 N/A N/A
 no sampling requirement

117 063-940-213- Physical Therapy Whirlpool Cleaning
003
Flow(gpd) N/A 50 N/A N/A
no sampling requirement

118 063-940-213- X-Ray Film Processor
004
Flow(gpd) N/A 1000 N/A N/A
Silver(mg/L) 2 2 once/ 3 Grab
months

The interim limitation for silver is 1 7.0 milligrams per liter.
The final limitation of 2.0 milligrams per liter shall become effective two years after issuance of this permit.

119 800-942-001 Industrial Clothes Washers
Flow(gpd) N/A 8300 N/A N/A
no sampling requirement

120 03-944-001
Rainwater Sumps N/A 13,000 N/A N/A
PCB(ug/L) 1 5 15 once/3 Grab
months

The interim limitation for PCB's is 120 micrograms per liter. The final limitation for PCB's of 15.0 micrograms per liter shall become effective two years following issuance of this permit.

121 350-WERF-001 Metal Cutting Cooling Water-normaly discharge through bilge
water treatment
Flow(gpd) N/A 5000 N/A N/A
Cadmium(mg/L) 0.17 0.17 monthly Batch-grab
Copper(mg/L) 5.2 5.2 monthly Batch-grab
Chromium(mg/L) 5 5 monthly Batch-grab
Nickel(mg/L) 3.2 3.2 monthly Batch-grab
test only if not treated and not sent to Building 871

122 03-7133-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

123 03-138-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

124	03-192-001	Gas Fired Boiler Flow(gpd) no sampling requirement	N/A	500	N/A	N/A
125	03-377-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
126	03-413-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
127	03-468-001	Gas Fired Boiler Flow(gpd) no sampling requirement	N/A	500	N/A	N/A
128	08-477-001-	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
129	03-551-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
130	03-615-001	Gas Fired Boiler Flow(gpd) no sampling requirement	N/A	500	N/A	N/A
131	03-618-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
132	03-621-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
133	03-623-001	Gas Fired Boiler Flow(gpd) no sampling requirement	N/A	500	N/A	N/A
134	03-624-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A

135 03-626-001	Gas Fired Boiler	Flow(gpd) no sampling	N/A requirement	500 N/A	N/A
136 03-628-001	Gas Fired Boiler	Flow(gpd) no sampling	N/A requirement	500 N/A	N/A
137 03-631-obi	Gas Fired Boiler	Flow(gpd) no sampling	N/A requirement	500 N/A	N/A
13,8 03-633-001	Gas Fired Boiler	Flow(gpd) no sampling requirement	N/A requirement	500 N/A	N/A
139 03-635-001	Gas Fired Boiler	Flow(gpd) no sampling	N/A requirement	500 N/A	N/A
140 03-637-001	Gas Fired Boiler	Flow(gpd) no sampling	N/A requirement	500 N/A	N/A
141 03-639-001	Gas Fired Boiler	Flow(gpd) No sampling requirement	N/A requirement	500 N/A	N/A
142 03-640-001	Gas Fired Boiler	Flow(gpd) no sampling	N/A requirement	500 N/A	N/A
143 03-641-001	Gas Fired Boiler	Flow(gpd) no sampling	N/A requirement	500 N/A	N/A
144 03-642-001	Gas Fired Boiler	Flow(gpd) no sampling requirement	N/A requirement	500 N/A	N/A
145 03-644-001	Gas Fired Boiler	Flow(gpd) no sampling	N/A requirement	500 N/A	N/A
146 03-646-001	Gas Fired				

	Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
147 03-648-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
148 03-649-001	Gas Fired Boiler Flow(gpd) no sampling requirement	N/A	500	N/A	N/A
149 03-651-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
150 03-652-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
151 03-654-001	Gas Fired Boiler Flow(gpd) no sampling requirement	N/A	500	N/A	N/A
152 03-656-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
153 03-658-001	Gas Fired Boiler Flow(gpd) no sampling	NA	500	N/A	N/A
154 03-864-001	Gas Fired Boiler Flow(gpd) no sampling requirement	N/A	500	N/A	N/A
155 03-502-001	Gas Fired Boiler Flow(gpd) no sampling	N/A	500	N/A	N/A
156 03-865-001	Gas Fired Boiler Flow(gpd)	N/A	500	N/A	N/A

no sampling requirement

157 03-400-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

168 03-530-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

159 03-466-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

160 03-853-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

161 03-434-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

162 03-644-001 Gas Fired
Boiler
Flow (gpd) N/A 500 N/A N/A
no sampling requirement

163 03-866-1-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

164 03-866-2-001. Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

165 03-885-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

166 03-658-001 Gas Fired
Boiler
Flow(gpd) N/A 500 N/A N/A
no sampling requirement

167 99-001;001 Special Hull Treatment at Drydock 1
Flow(gpd) N/A 4000 each batch meter
Chromium(mg) 5 5 each batch composite

Copper(mg/L)	5.2	5.2 each	-batch	composite
Lead(mg/L)	1.3	1.3 each	batch	composite
Nickel(mg/L)	3.2	3.2 each	batch	composite
Zinc(mg/L)	5	5 each	batch	composite

1-68 99-DD2-001 Special, Hull Treatment at Drydock 2

Flow(gpd)	N/A	4000 each	batch	meter
ChromiLim(mg/L)	5	5 each	batch	composite

Copper(mg/L)	5.2	5.2 each	batch	composite
Lead(mg/L)	1.3	1.3 each	batch	composite
Nickel(mg/L)	3.2	3.2 each	batch	composite
Zinc(mg/L)	5	5 each	batch	composite

169 99-DD3-001 Special Hull Treatment at Drydock 3

Flow(gpd)	N/A	4000 each	batch	meter
Chromium(mg/L)	5	5 each	batch	composite

Copper(mg/L)	5.2	5.2 each	batch	composite
Lead(mg/L)	1.3	1.3 each	batch	composite
Nickel(mg/L)	3.2	3.2 each	batch	composite
Zinc(mg/L)	5	5 each	batch	composite

170 99-DD4-001 Special Hull Treatment at Drydock 4

Flow(gpd)	N/A	4000 each	batch	meter
Chromium(mg/L)	5	5 each	batch	composite

Copper(mg/L)	5.2	5.2 each	-batch	composite
Lead(mg/L)	1.3	1.3 each	batch	composite
Nickel(mg/L)	3.2	3.2 each	batch	composite
Zinc(mg/L)	5	5 each	batch	composite

171 99-DD5-001 Special Hull Treatment at Drydock 5

Flow(gpd)	N/A	4000 each	batch	meter
Chromium(mg/L)	5	5 each	batch	composite

Copper(mg/L)	5.2	5.2 each	batch	composite
Lead(mg/L)	1.3	1.3 each	batch	composite
Nickel(mg/L)	3.2	3.2 each	batch	composite
Zinc(mg/L)	5	5 each	batch	composite

172 99-DD6-001 @Special Hull Treatment at Drydock 6

Flow(gpd)	N/A	4000	each batch	meter
Chromium(mg/L)	5	5	each batch	composite
Copper(mg/L)	5.2	5.2	each batch	composite
Lead(mg/L)	1.3	1.3	each batch	composite
Nickel(mg/L)	3.2	3.2	each batch	composite
Zinc(mg/)	5	5	each batch	composite

173 71-ODI-005 Hydroblast/Pressure Wash Water from Drydock 1

Flow(gpd)	N/A	30,000	meter	meter
Chromium(mg/L)	5	5	quarterly	composite
Copper(mg/L)	5.2	5.2	quarterly	composite
Lead(mg/L)	1.3	1.3	quarterly	composite
Nickel(mg/L)	3.2	3.2	quarterly	composite
Zinc(mg/)	5	5	quarterly	composite

174 71-DD2-005 Hydroblast/Pressure Wash Water from Drydock 2

Flow(gpd)	N/A	30,000	meter	meter
Chromium(mg/L)	5	5	quarterly	composite
Copper(mg/L)	5.2	5.2	quarterly	composite
Lead(mg/L)	1.3	1.3	quarterly	composite
Nicket(mg/L)	3.2	3.2	quarterly	composite
Zinc(mg/)	5	5	quarterly,	composite

175 71-DD3-005 Hydroblast/Pressure Wash Water from Drydock 3

Flow(gpd)	N/A	30,000	meter	meter
Chromium(mg/L)	5	5	quarterly	composite
Copper(mg/L)	5.2	5.2	quarterly	composite
Lead(mg/L)	1.3	1.3	quarterly	composite
Nickel(mg/L)	3.2,	3.2	quarterly	composite
Zinc(mg/)	5	5	quarterly	composite

176 71-DD4-005

Hydroblast/Pressure Wash Water from Drydock 4

Flow(gpd)	N/A	30,000	meter	meter
Chromium(mg/L)	5	5	quarterly	composite
Copper(mg/L)	5.2	5.2	quarterly	composite

Lead(mg/L)	1.3	1.3 quarterly	composite
Nickel(mg/L)	5.2	5.2 quarterly	composite
Zinc(mg/)	5	5 quarterly	composite

177	71-DD5-005 Hydroblast/Pressure Wash Water from Drydock	5		
	Flow(gpd)	N/A	30,000 meter	meter
	Chromium(mg)	5	5 quarterly	composite
	Copper(mg/L)	5.2	5.2 quarterly	composite
	Lead(mg/L)	1.3	1.3 quarterly	composite
	Nickel(mg/L)	3.2	3.2 quarterly	composite
	Zinc(mg/)	5	5 quarterly	composite

178	71-DD6-005 Hydroblast/Pressure Wash Water from Drydock	6		
	Flow(gpd)	N/A	30,000 meter	meter
	Chromium(mg)	5	5 quarterly	composite
	Copper(mg/L)	5.2	5.2 quarterly	composite
	Lead(mg/L)	1.3	1.3 quarterly	composite
	Nickel(mg/L)	3.2	3.2 quarterly	composite
	Zinc(mg/)	5	5 quarterly	composite

179	57-DD3-001 Asbestos/PCB Lagging Removal Area Deck Drain			
	Flow(gpd)	N/A	N/A	N/A
	PCB(ug/L)	1.5	1.5 quarterly-	composite

The interim limitation for PCB's is 120 micrograms per liter. The final limitation for PCB's of 5.2 micrograms per liter shall become effective two years following issuance of this permit.

180	03-DDI-002 Drydock 1; Stormwater Collection System			
	Flow(gpd)	N/A	42,000 meter	meter
	Chromium(mg)	5	5 quarterly	grab
	Copper(mg/L)	5.2	5.2 quarterly	grab
	Lead(mg/L)	1.3	1.3 quarterly	grab
	Nickel(mg/L)	3.2	3.2 quarterly	grab
	Zinc(mg/)	5	5 quarterly	grab

181	03-OD2-002 Drydock 2-Stormwater Collection System			
	Flow(gpd)	N/A	42,000 meter	meter
	Chromium(mg/L)	5	5 quarterly	grab
	Copper(mg/L)	5.2	5.2 quarterly	grab
	Lead(mg/L)	1.3	1.3 quarterly	grab
	Nickel(mg/L)	3.2	3.2 quarterly	grab

		Zinc(mg/)	5	5	quarterly	grab
182	03-DD3-002 Drydock System	3-Stormwater Collection				
		Flow(gpd)	N/A	.42,000	meter	meter
		Chromium(mg/L)	5	5	quarterly	grab
		Copper(mg/L)	5.2	5.2	quarterly	grab
		Lead(mg/L)	1.3.	1	.3 quarterly	grab
		Nickel(mg/L)	3.2	3.2	quarterly	grab
		Zinc(mg/)	5	5	quarterly	grab
183	03-DD4-002 Drydock System	4-Stormwater Collection				
		Flow(gpd)	N/A	42,000	meter	meter
		Chromium(mg/L)	5	5	quarterly	grab
		Copper(mg/L)	5.2	5.2	quarterly	grab
		Lead(mg/L)	1.3	1.3,	quarterly	grab
		Nickel(mg/L)	3.2	3.2	quarterly	grab
		Zinc(mg/)	5	5	quarterly	grab
184	03-DD5-002 Drydock System	5-Stormwater Collection				
		Flow(gpd)	N/A	42,000	meter	meter
		Chromium(mg/L)	5	5	quarterly	grab
		Copper(mg/L)	5.2	5.2	quarterly	grab
		Lead(mg/L)	1.3	1.3	quarterly	grab
		Nickel(mg/L)	3.2	3.2	quarterly.	grab
		Zinc(mg/)	5	5	quarterly	grab
185	03-006-002 Drydock System	6-Stormwater Collection				
		Flow(gpd)	N/A	42,000	meter	meter
		Chromium(mg/L)	5	5	quarterly	grab
		Copper(mg/L)	5.2	5.2	quarterly.	grab
		Lead(mg/L)	1.3	1.3	quarterly	grab
		Nickel(mg/L)	3.2	3.2	quarterly	grab
		Zinc(mgi)	5	5	quarterly	gra
186	41-PIERSIDE- Phosphate 001	Boiler Cleaning Rinsewater				
		Flow(gpd)	N/A	70,000	N/A	N/A
		pH (std units)	N/A	minimum 5.0	1 /batch	grab
		Chromium(mg)	5	5	1 /batch	grab
187	CD-IR1 -001 Construction Restoration Site 001	Dewatering at Installation				
		Flow(gpd)	N/A	25,000	1/20,000	meter/tank

Lead(mg/L)	1.3	1.3	1/20,000	gal	grab
Nickel(mg/L)	3.2	3.2	1/20,000	gal	grab
Zinc(mg/L)	5	5	1/20,000	gal	grab
TTO's(mg/L)	2.13	2.13	1/20,000	gal	grab

Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels. Whenever an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall briefly describe its plans for preventing such exceedances in the future. IR sampling results shall not be reported on monthly OMRs, but rather, in an annual report to the Department due March 1 5 of each year.

1 88 CD-IR3-001 Construction De-watering at Installation

Restoration Site 003

Flow(gpd)	N/A	25,000	1/20,000	meter/tank	
Lead(mg/L)	1.3	1.3	1/20,000	gal	grab
Nickel(mg/L)	3.2	3.2	1/20,000	gal	grab
Zinc(mg/L)	5	5	1/20,000	gal	grab
TTO's(mg/L)	2.13	2.13	1/20,000	gal	grab

Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels. Whenever an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall briefly describe its plans for preventing such exceedances in the future. IR sampling results shall not be reported on monthly DMRs, but rather, in an annual report to this Department due March 1 5 of each year.

189 CD-IR7-001 Construction Dewatering at Installation

Restoration Site 7

Flow(gpd)	N/A	25,000	1/20,000	meter/tank	
Lead(mg/L)	1.3	1.3	1/20,000	gal	grab
Nickel(mg/L)	3.2	3.2	1/20,000	gal	grab
Zinc(mg/L)	5	5	1/20,000	gal	grab
TTO's(mg/L)	2.13	2.13	1/20,000	gal	grab

Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels. Whenever an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall briefly describe its plans for preventing such exceedances in the future. IR sampling, results shall not be reported on monthly DMRs, but rather, in an annual report to the Department due March 1 5 of each year.

190 CD-IR8-001 Construction Dewatering at Installation Restoration Site 8

Flow(gpd)	N/A	25,000	1/20,000	meter/tank
			gal	
Lead(mg/L)	1.3	1.3	1/20,000	grab
			gal	
Nickel(mg/L)	3.2	3.	1/20,000	grab
			gal	
Zinc(mg/L)	5	5	1/20,000	grab
			gal	
TTO's(mg/L)	2.13	2.13	1/20,000	grab
			gal	

Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels. Whenever an action level is exceeded the-shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall briefly describe its plans for not be reported on monthly DMRs, but preventing such exceedances in the future. IR sampling results shall rather, in an annual report to the Department due March 15 of each year.

191 CD-IR9-001 Construction Dewatering at Installation Restoration Site 9

Flow(gpd)	N/A	25,000	1/20,000	meter/tank
			gallon	
Lead(mg/L)	1.3	1.3	1/20,000	grab
			gallon	
Nickei(mg/L)	3.2	3.2	1/20,000	grab
			gallon	
Zinc(mg/L)	5	5	1/20,000	grab
			gallon	
TTO's(mg/L)	2.13	2.13	1/20,000	grab
			gallon	

note: sampling is not required if less than 1 000 gpd or 1 0,000 gallons per project
 Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels. Whenever, an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall briefly describe its plans for preventing such exceedances in the future. IR sampling results shall not be reported an monthly DMRs, but rather, in an annual report to the Department due March 1 5 of each year.

192 CD-IRIOC-001 Construction Dewatering at Installation Restoration Site 10C

Flow(gpd)	N/A	25,000	1/20,000	meter/tank
			gallon	
Lead(mg/L)	1.3	1.3	1/20,000	grab
			gallon	
Nickei(mg/L)	3.2	3.2	1/20,000	grab
			gallon	
Zinc(mg/L)	5	5	1/20,000	grab
			gallon	
TTO's(mg/L)	2.13	2.13	1/20,000	grab
			gallon	

note:sampiing is not required if less than 1000 gpd or 10,000 gallons per project
 Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels.

Whenever an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall briefly describe its plans for preventing such exceedances in the future. IR sampling results shall not be reported on monthly DMRs, but rather, in an annual report to the Department due March 15 of each year.

193 CD-IRIOE-001 Construction Dewatering at Installation Restoration Site 10E				
Flow(gpd)	N/A	25,000	1/20,000. gallon	meter/tank
Lead(mg/L)	1.3	1.3	1/20,000 gallon	grab
Nickel(mg/L)	3.2,	3.2	1/20,000 gallon	grab
Zinc(mg/L)	5	5	1/20,000 gallon	grab
TTO's(mg/L)	N/A	2.13	1/20,000	grab gallon

note: sampling is not required if less than 1000 gpd or 10,000 gallons per project
 Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels.
 Whenever an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall briefly describe its plans for preventing such exceedances in the future.
 IR sampling results shall not be reported on monthly _DMRs, but rather, in an annual report to the Department due March 1 5 of each. year.

194 CD-IRIOW-001 Construction Dewatering at Installation Restoration Site 1 OW				
Flow(gpd)	N/A	25,000	1/20,000 gallon	meter/tank
Lead(mg/L)	1,3	1.3	1/20,000 gallon	grab
Nickel(mg/L)	3.2	3.2	1/20,000 gallon	grab
Zinc(mg/L)	5	5	1/20,000	grab gallon
TTO's(mg/L)	N/A	2.13	1/20,000	grab gallon

note:sampling is not required if less than 1000 gpd or 10,000 gallons per project
 Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels.
 Whenever an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall briefly describe its plans for preventing. such exceedances in the future.
 IR sampling results shall not be reported on monthly DMRs, but rather, in an annual report to the Department due March 15 of each year.

195 CO-IR1 1-001 Construction Dewatering at Installation Restoration Site 11 - non steam sparging

Flow(gpd)	N/A	43,200	1/20,000	meter/tank
				gallon
TPH(G&D)(m g/L)	N/A	200	1/20,000	gallon
TTO's(mg/L)	2.13	2.13	1/20,000	grab
				gallon

note:sampli ng is not required if less than 1 000 gpd or 1 0,000 gallons per project
Numbers appearing in the limitations column for this IR site are not limitations, but rather action levels.

Whenever an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance, and shall- briefly describe its plans for preventing such exceedances in the future. IR sampling results shall not be reported on monthly DMRs,but rather, in an annual report to the Department due March 1 5 of each year.

1 96 CD-IR1 1 -001 S Steam Sparging Construction Dewatering at Installation Restoration Site 1 1

Flow(gpd)	N/A	43,200	N/A	N/A
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Although listed here, this discharge is regulated under a separate agreement.
This discharge is not regulated in this permit.

197 CD-IR1 2-001 Construction Dewatering at Installation Restoration Site 12

Flow(gpd)	N/A	43,200	1/20,000	grab
				gallon
Lead(mg/L)	1.3	1.3	1/20,000	grab
				gallon
Nickel(mg/L)	3.2	3.2	1/20,000	grab
				gallon
Zinc(mg/L)	5	5	1/20,000	grab
				gallon
TTO's(mg/L)	2.1 3	2.13	1/20,000	grab
				gallon

note:sampling is not required if less than 1 000 gpd or 1 0,000 gallons per project
Numbers appearing in the limitations column for this IR site are not limitations, but rather.action levels.
Whenever an action level is exceeded the shipyard shall inform the Department in writing within one week of becoming aware of such exceedance,, and shall briefly describe its plans for preventing such exceedances in the future. IR sampling results shall not be reported on monthly DMRs,but rather, in an annual report to the Department due March 1 5 of each year.

198 Lift Station Municipal Lift Station WB3

(West End)				
Arsenic(mg/L)	0.1 5		0.1 5	monthly Composite
Cadmium(mg/L)	0.17		0.1 7	monthly Composite
Chromium(mg/L)	5		5	monthly Composite
Copper(mg/L)	5.2		5i2	monthly Composite

Lead(mg/L)	1.29	1.29	monthly	Composite
Mercury	0.09	0.09	monthly	Composite
Nickel(mg/L)	3.2	3.2	monthly	Composite
Zinc(mg/L)	5	5	monthly	Composite
Cyanide(T)(m g/L)	0.57	0.57	monthly	Composite
Salinity(SPSS)	N/A	N/A	monthly	Composite

Note: The electrical conductivity method may be employed for determination of salinity note: SPSS is an index of salinity based on the practical salinity scale

199 first Street Lift	Municipal Lift Station			
Station (East End)	Arsenic(mg/L)	0.15	0.15	monthly Composite
Cadmium(mg/ L)	0.17	0.17	monthly,	Composite
Chromium(mg /L)	5	5	monthly	Composite
Copper(mg/L)	5.2	5.2	monthly	Composite
Lead(mg/L)	1.29	1.29	monthly	Composite
Mercury	0.09	0.09	monthly	Composite
Nickel(mg/L)	3.2	3.2	monthly	Composite
Zinc(mg/L)	5	5	monthly	Composite
Cyanide(T)(m g/L)	0.57	0.57	monthly	Composite
Salinity(SPSS)	N/A	N/A	monthly	Composite

note: The electrical conductivity method may be employed for determination of salinity note: SPSS is an index of salinity based on the practical salinity scale