

# DEPARTMENT OF ECOLOGY

Northwest Regional Office • 3190-160th Avenue SE • Bellevue, Washington 98008-5452 • (425) 649-7000

December 28, 2001

Mr. Michael Feldman Director, Aviation Facilities Port of Seattle PO Box 68727 Seattle, WA 98168

Dear Mr. Feldman:

Re.

Receipt of Waste Discharge Permit Application

WA-002465-1; Seattle-Tacoma International Airport

The Department of Ecology acknowledges receipt of an application for a waste discharge permit for the Seattle-Tacoma International Airport on December 21, 2001. The application will be reviewed for completeness and accuracy.

• • • 19: •

If you have any questions, please contact Ed Abbasi at (425) 649-7227.

Sincerely,

Tricia Miller

Permit Coordinator

Northwest Regional Office

TM:tm

Cc:

Tom Hubbart, Port of Seattle

Ed Abbasi, Facility Manager



December 20, 2001

Mr. Ed Abbasi, P.E.
Washington Department of Ecology
Northwest Regional Office
3190 160th Ave SE
Bellevue, Washington 98008

RE:

Application for Renewal of NPDES Permit

Seattle-Tacoma International Airport (NPDES Permit WA-002465-1)

Dear Mr. Abbasi:

Enclosed you will find the updated Stormwater Pollution Prevention Plan (SWPPP) for Airport Operations required by Special Condition S12.B.1 as part of the permit renewal process. The Port has thoroughly reviewed the SWPPP and has added several new BMPs covering aircraft parking outside of the industrial waste system drainage, de-icing chemical storage, and operation of the Tyee Golf Course. The SWPPP reflects the fecal coliform source tracing, the whole effluent toxicity (WET) testing and new facilities that the Port has constructed such as the soil segregation facility.

If you have questions regarding the SWPPP, please call Tom Hubbard of my staff at 206/248-7135.

Sincerely.

Michael Feldman

Director, Aviation Facilities

**Enclosure** 

XC:

Tom Hubbard, POS/AV/ENV Julie Oiye, Burien Public Library

Seattle-Tacoma International Airport P.O. Box 68727 Seattle, WA 98168 U.S.A. TELEX 703433 FAX (206) 431-5912



December 20, 2001

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DEPT OF EDOLOGY

Mr. Ed Abbasi, P.E. Washington Department of Ecology Northwest Regional Office 3190 160th Ave SE Bellevue, Washington 98008

RE: Application for Renewal of NPDES Permit

Seattle-Tacoma International Airport (NPDES Permit WA-002465-1)

Dear Mr. Abbasi:

Enclosed you will find EPA Forms 1, 2C, 2F and Ecology Form 177 for the renewal of the NPDES permit for the Port of Seattle, Seattle-Tacoma International Airport as required by General Condition G7 of NPDES Permit WA-002465-1. The updated Stormwater Pollution Prevention Plan (SWPPP) for Airport Operations required by Special Condition S12.B.1 will be sent under separate cover.

Form 2C for the Industrial Waste Treatment Plant and Form 177 for discharges to the Midway Sewer District are very similar to the forms submitted in 1998. The flows for Midway discharges reflect full build-out of the Central Terminal Expansion, the South Terminal Expansion, and the North End Development. The first two projects are under construction; the third is still being studied.

There are three substantial changes to Form 2F. First, the Port is proposing consolidation of monitoring locations at both the north and south ends of the airport. The current monitoring locations were selected so that the Port's data would not be "tainted" with non-Port runoff from the City of SeaTac and Highway SR 518 that co-mingles with Port runoff before it reaches the stormwater treatment facilities at Lake Reba or the Northwest Ponds. However, we have come to realize that this approach does not allow the Port to monitor its runoff downstream of all of the existing and proposed best management practices and treatment facilities designed to treat the

Seattle-Tacoma International Airport P.O. Box 68727 Seattle WA 94168 U.S.A. TELEX 703433 FAX 2061 43145912 Port's stormwater. With this change, the Port's monitoring data will better reflect what is actually discharged to the receiving environment where it might impact aquatic resources. This will allow both the Port and Ecology to get a better handle on whether our BMPs and treatment facilities are working or not. Second, Form 2F also includes the proposed new outfalls for projects that will be constructed in the next 5 years including the proposed Third Runway. Third, due to land use changes and re-routing of drainage at Sea-Tac, several outfalls listed in the current permit do not have industrial activities and therefore, the application lists only those outfalls that receive runoff from industrial activities.

If you have questions regarding the application for renewal, please call Tom Hubbard of my staff at 206/248-7135.

Sincerely.

Michael Feldman

Director, Aviation Facilities

**Enclosure** 

xc: Tom Hubbard, POS/AV/ENV

Julie Oiye, Burien Public Library



# APPLICATION FOR A WASTEWATER DISCHARGE PERMIT FOR DISCHARGE OF INDUSTRIAL WASTEWATER TO A POTW

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

This application is for a wastewater discharge permit for a discharge of industrial wastewater to a publicly owned treatment works (POTW) as required in accordance with provisions of Chapter 90.48 RCW and Chapter 173-216 WAC. Permit applications provide the Department with information on pollutants in the waste stream, materials which may enter the waste stream, and the flow characteristics of the discharge.

The Department may request additional information at a later date to clarify the conditions of this discharge. Information previously submitted to the Department and which is applicable to this application should be referenced in the appropriate section.

	SECTI	ON A. GENERAL INFORMATION		
1.	Applicant Name	Port of Seattle	<del></del>	
2.	Facility Name: (if different from Applicant)	Seattle-Tacoma International Airport		
3.	Applicant Address:	P.O. Box 68727 Street		
4.	Facility Address:	Seattle, WA 98168 City/State  17891 Pacific Highway S. Street  Seattle, WA 98158 City/State	Zip	
<b>5</b> .	Latitude/longitude of the	ne facility:	_	
	47 .	26 · 37 "N 122 · 18 · 04 "W		
6.	Facility contact who is	familiar with the information contained in this application:		
	Thomas P. Hubbard	Surface Water Manager		
	Name	Title		
	206-248-7135	206-431-4980		
	Telephone Number	Fax Number		

ECY 040-177 (Rev. 6/01) SAI2M004.DOC

7.	Check	: <u>One</u> :		
	V	Permit Renewal (including	ng renewal of temporary i	permits authorized by RCW 90.48.200)
	ليتسيا	amount of pollutant d		ant of wastewater discharge, a greater to different pollutants than specified in Yes
		For permit renewals, the application.	current permit is an atta	achment, by reference, to this
		Permit Modification		
		Existing Unpermitted D	ischarge	
		Proposed Discharge		
		Anticipated date of di	scharge: Rental Car V	Vash (early 2002)
		•	Proposed Equ	ipment: Wash Rack
accorda Based o informa there ar	nce with a n my inqu tion, the ir	i system designed to assure that iry of the person or persons who iformation submitted is, to the be ant pena <u>lti</u> es for, submitting fals	qualified personnel properly o manage the system, or tho ost of my knowledge and beli	prepared under my direction or supervision in y gather and evaluate the information submitted. ose persons directly responsible for gathering the ief, true, accurate, and complete. I am aware that he possibility of a fine and/or imprisonment for
	Ma	Heldman	12/19/01	Director, Aviation Facilities
		Signature*	Date	Title
Micha	ael D. F	eldman		
		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 application is to be signed by the person who makes budget decisions for this facility.

The Department of Ecology is an equal opportunity agency and does not discriminate on the basis of race, creed, color, disability, age, religion, national origin, sex, marital status, disabled veteran's status, Vietnam Era veteran's status or sexual orientation

If you have special accommodation needs or require this document in alternative forma: please contact Ecology at (360) 407-6401 (voice). Ecology's telecommunications devise for the deaf (TDD) is (360) 407-6006.

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#### SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities at this facility. Provide the applicable Standard Industrial Classification (SIC) Code(s) for each activity (see Standard Industrial Classification Manual, 1987 ed.).

Boiler Blow Down SIC Code 4851 (Airport Terminal Services)

Average flow is 500 gallons per day based on full build out of South and Central Terminal Expansions.

Blow down includes surface blow down discharged via need valve at surface of boiler and bottom blow down via manual valve. Duration of blow down is based on field analyses.

Boiler additives are injected to control corrosion and scale and to disperse precipitates.

Boiler drainage for maintenance: annual 1800 gal./8 hr. and emergency drainage 1800 gal./8 hr.

2. List raw materials and products:

Туре	RAW MATERIALS	Quantity
Fresh Make Up Water	400 - 800 gal./day	
Iron Passivator/ Silica Solubilizer 115	66 150 gal./mo.	
Oxygen Scavenger 1152	150 gal./ mo.	
Corrosion Control Agent 485	50 gal./ mo.	
Туре	PRODUCTS	Quantity:
	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·

# 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 or Continuous Process
Boiler	Surface Blow Down	STIA - B1	continuous
Boiler	Bottom Blow Down	STIA-B2	batch
			batch

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 the last page of this application form.)

3.	What is the maximum daily discharge flow:	2,000	gallons/day
	What is the maximum average monthly discharge flow (daily flows averaged over a mont	h):500	gallons/day

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

Existing facilities may expand in the future. Flows may increase, but processes will not change.

# SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities at this facility. Provide the applicable Standard Industrial Classification (SIC) Code(s) for each activity (see Standard Industrial Classification Manual, 1987 ed.).

Cooling Tower Blow Down SIC Code 4851 (Airport Terminal Services)

Waste stream is batch blow down from cooling tower which provides air conditioning to the Terminal.

2. List raw materials and products:

Type	RAW MATERIALS	Quantity
Fresh Make Up Water	16,800 - 25,000	gal./day
Microbiocide Formula 3338	70 gal./mo. (9 m	io.) 140 gal./mo. (3 mo.)
Microbiocide Formual 315	70 gal./mo. (9 m	o.) 140 gal./mo. (3 mo.)
Scale/ Corrosion Control Formula 293	OL 70 gal./mo. (9 m	io.) 140 gal./mo. (3 mo.)
Туре	PRODUCTS	Quantity

# 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 or Continuous Process
Cooling Tower	Blow Down	STIA-CT1	batch
			batch

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 the last page of this application form.)

3.	What is the maximum daily discharge flow:	25,000 gallo	ons/day
	What is the maximum average monthly discharge flow (daily flows averaged over a mo	onth): 16,000	gallons/day

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

Existing facilities may be expanded in the future. Flows may increase, but processes will not change.

# SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities at this facility. Provide the applicable Standard Industrial Classification (SIC) Code(s) for each activity (see Standard Industrial Classification Manual, 1987 ed.).

Rental Cart Wash Facility Blow Down SIC Codes 7514 (Passenger Car Rental) and 7542 (Automotive Service- Car Wash)

System is recycling ~10% of volume is replaced each cycle. Car wash flow is scheduled to be routed to the Midway Sewer District sewers in early 2002.

2. List raw materials and products:

Туре	RAW MATERIALS	Quantity
Fresh Make Up Water	2,000 - 20,000 ga	l./ day
Various Soaps	7,000 gal./ yr.	
Туре	PRODUCTS	Quantity

# 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 or Continuous Process
Rental Car Wash	Blow Down	STIA-RC1	continuous
			batch

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 the last page of this application form.)

3.	What is the maximum daily discharge flow:	20,000	gallons/day
	What is the maximum average monthly discharge flow (daily flows averaged over a mon	th):20,00	0 gallons/day

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

Existing facilities may be expanded in the future. Flows may increase, but processes will not change.

# SECTION B. PRODUCT INFORMATION

1. Briefly describe all manufacturing processes and products, and/or commercial activities at this facility. Provide the applicable Standard Industrial Classification (SIC) Code(s) for each activity (see Standard Industrial Classification Manual, 1987 ed.).

Future Equipment Wash Rack SIC Code 7542 (Automotive Services - Car Wash) and 4582 (Airport Terminal Services)

Waste stream will be batch blow down from automatic and batch equipment wash facility.

2. List raw materials and products:

Туре	RAW MATERIALS	Quantity
Fresh Make Up Water	1,000 - 2,000 gal.	/ day
Various Soaps	1,000 gal./yr.	
Туре	PRODUCTS	Quantity

# 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 or Continuous Process
Equipment Wash Rack	Blow Down	STIA - WRI	continuous
			batch

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 the last page of this application form.)

3.	What is the maximum daily discharge flow:	1,000	gallons/day	
	What is the maximum average monthly discharge flow (daily flows averaged over a month)	): 1,0	000 gallo	ns/dav

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

System will include oil water separation and vaults/ chambers to settle solids. System will be recycling.

5. If production processes are subject to seasonal variations, provide the following information. List discharge for each waste stream in gallons per day (GPD). The combined value for each month should equal the estimated total monthly flow.

Waste Stream ID#						MON	THS					
	J	F	M	A	M	J	J	A	S	0	N	D
STIA B1	800	800	800	600	400	400	400	400	600	800	800	800
STIA B2	2000	2000	2000	1500	1000	1000	1000	1000	1500	2000	2000	2000
STIA CTI	16000	16000	16000	20000	20000	25000	25000	25000	25000	20000	16000	16000
STIA RCI	4800	6400	5600	6000	6000	8400	9600	10200	9800	15000	14200	12040
STIA WRI (proposed)	2400	3200	2800	3000	3000	4290	4900	4900	6600	7500	7100	6000
			-									
Estimated Total Monthly Flow (GPD)	26000	28400	27200	31100	30400	39000	40800	41100	46900	45300	40100	36840

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 like oil, paint, grease, solvents, and cleaners that are used or stored on site (List only those with quantities greater than 10 gallons for liquids and 50 pound quantities for solids). For solvents and solvent-based cleaners include a copy of the material safety data sheet for each material and estimate the quantity used. (Use additional sheets, if necessary and label as attachment C.7.) Materials/Quantity Stored:

The Port of Seattle's Stormwater Pollution Prevention Plan, a condition of NPDES permit WA 002465-1 requires secondary containment of liquids. Oil, paint, grease solvents and cleaners are stored in areas isolated from the boilers, cooling tower, rental car wash facility and the proposed equipment wash rack. All solids are stored under cover. The boiler and cooling towers are closed systems.

8. Some types of facilities are required to have spill or waste control plans. Does this fac	cility hav	ave
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_	A Spill Prevention, Control, and Countermeasure Plan (40 CFR 112)?	Yes
	•	No
b.	An Emergency Response Plan (per WAC 173-303-350)?	
C.	A Runoff, spillage, or leak control plan (per WAC 173-216-110(f))?	No
	Any spill or pollution prevention plan required by local, State or Federal authorities?	Yes
	If yes specify: SPCC and SWPPP required by NPDES permi WA 002465-1	
e.	A Solid Waste Management Plan?	No
f	Slug Discharge Control Plan (40 CFR 403 8(f)(2)(v))?	No

# SECTION D. WATER CONSUMPTION AND WATER LOSS 1. Water source(s): Public System (Specify) City of Seattle (Seattle Public Utilities) Private Well \_\_\_ Surface Water a. Water Right Permit Number: b. Legal Description of Water Source: \_\_\_\_\_\_¼S, \_\_\_\_\_\_ Section, \_\_\_\_\_ TWN, \_\_\_\_\_ R 2. Water use a. Indicate total water use: 360,000\* Gallons per day (average) Gallons per day (maximum) 645,000\* b. Is water metered? Yes

\* This includes water used in toilets, sinks, fire protection, food preparation, and routine maintenance.

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# SECTION E. WASTEWATER INFORMATION

How are the water intake and effluent flows measured?

metered Intake: \_

Effluent: metered

R

(X) in the left column. Use the analytical methods given in the table unless an alternate method is approved by Ecology. All analyses, except pH, must be conducted by a laboratory registered or accredited by the Department of Ecology (WAC 173-216-125). If this is an Provide measurements or range of measurements for treated wastewater prior to discharge to the POTW for the parameters with a check application for permit renewal provide data for the last year for those parameters that are routinely measured. For parameters measured only for this application when the united maximum.

	out) for any apprication place are values under maximum.	מוועמיוו ומחווו	MII.					Γ
	Parameter	Ö	Concentrations Measured	Measured	Analytical Method		Detection	
×		Minimum	Maximum	Average	Std. Methods 19th edition	tion	L.Imit	
	BOD (5 day)				\$210		2 mg/l	
	COD				5220 B, C, or D		1/gm 2	
	Total Suspended Solids				2540D		1/8m 1	
	Total Dissolved Solids				2540 C			
	Conductivity				2510 B			
	Ammonia-N				4500-NII, C		20 µg/l	
	Hd				4500-11		0.1 units	
	Total Residual Chlorine				4500-CI E		1/8m 1	
	Fecal Coliform	0 1			9222 D			
	Total Coliform				9221 B or 9222 B		-	
I	Dissolved Oxygen				4500-O C or 4500-O G	G		
·								
	Nitrate + Nitrite-N				4500-NO <sub>3</sub> E		0.5 mg/l	
	Total Kjeldahl N				4500-N <sub>org</sub>		20 µg/l	
	Ortho-phosphate-P				4500-P E or 4500-P I	_	1/84 [	_

Existing NPDES Permit WA 002465-1 requires monitoring of flow only.

	Parameter	Concentrations Measured	Analytical Method	Detection
×		Minimum Maximum Average	Sid. Methods 19th edition	L.imait
	Total-phosphate-P		4500-P B.4.	1/8#1
	Total Oil & Grease		5520 C	0.2 mg/l
	Total Petroleum Hydrocarbon		5520 D, F	
	Calcium		3500-Ca B	3 µg/l
	Chloride		4500-CI C	1/8 µ 8/1
•	Fluoride		4500-F D	0.1 mg/l
	Magnesium		3500-Mg B	1/8 µ 8/1
	Potassium		3500-K B	5 µg/l
•	Sodium		3500-Na B	2 μg/l
	Sulfate	<	4500-SO <sub>4</sub> E	1/8m (
	Arsenic (total)		3114B	2 µg/1
•	Barium (total)		3500-Ba B	30 µg/l
•	Cadmium (total)		3500-Cd B	1/811 5
•	Chromium (total)		3500-Cr B	1/4H 08
	Copper (total)		3500-Cu B	20 μg/l
•	Lead (total)		3500-Pb B	1/8rt 001
•	Mercury		3500-11g B	0.2 µg/l
•	Molybdenum (total)		3500-Mo	1/8/1
•	Nickel (total)		3500-Ni	20 118/1
•	Selenium (total)		3500-Se C	2 µg/1
•	Silver (total)		3500-Ag B	1/8rt 01
	Zinc (total)		3500-Zn B	1/811 5

3. Describe the collection method for the samples which were analyzed above (i.e., grab, 24 hour composite).

NA

4. Has the effluent been analyzed for any other parameters than those identified in question E.1.? 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 effluent testing based on information submitted in this application.)

No

5. Does this facility use any of the following chemicals as raw materials in production, produce them as part of the manufacturing process, or are they present in the wastewater? (The number following the chemical name is the Chemical Abstract Service (CAS) reference number to aid in identifying the compound.)

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

The selection and application of chemicals is dictated by the Port's SWPPP. The boiler and cooling towers are isolated from areas where these chemicals might be stored or used. All chemicals at the rental car facility and the proposed equipment wash rack will be stored in secondary containment.

#### **VOLATILE COMPOUNDS**

Acrolein (107-02-8) Acrylonitrile (107-13-1) Benzene (71-43-2)

Bis (chloromethyl) Ether (542-88-1)

Bromoform (75-25-2)

Carbon Tetrachloride (108-90-7)

Chlorobenzene (108-90-7)

Chlorodibromomethane (124-48-1)

Chloroethane (75-00-3)

2-Chloroethylvinyl Ether (110-75-8)

Chloroform (67-66-3)

Dichlorobromomethane (75-27-4)

Dichlorodifluromethane (75-71-8)

1,1-Dichloroethane (75-34-3)

1,2-Dichloroethane (107-06-2)

Vinyl Chloride (75-01-4)

1,1-Dichloroethylene (75-35-4)

1.2-Dichloropropane (78-87-5)

1,3-Dichloropropene (542-75-6)

Ethylbenzene (100-41-4)

Methyl Bromide (74-83-9)

Methyl Chloride (74-87-3)

Methylene Chloride (75-09-2)

1,1,2,2-Tetrachloroethane (79-34-5)

Tetrachloroethylene (127-18-4)

Toulene (108-88-3)

1,2-Trans-Dichloroethylene (156-60-5)

2. 1,1,1-Trichloroethane (71-55-6)

2. 1.1,2-Trichloroethane (79-00-5)

2. Trichloroethylene (79-01-6)

Trichlorofluromethane (75-69-4)

#### ACID COMPOUNDS

2-Chlorophenol 95-57-8

2.4-Dichlorophenol 120-83-2

2,4-Dimethylphenol 105-67-9

4,6-Dinitro-o-cresol 534-52-1

2.4-Dinitrophenol 51-28-5

2-Nitrophenol 88-75-5

4-Nitrophenol 100-02-7

p-Chloro-m-cresol 59-50-7

Pentachlorophenol 87-86-5

Phenol 108-95-2

2,4,6-Trichlorophenol 88-06-2

#### **METALS**

Antimony 7440-36-0 Arsenic 7440-38-2 Beryllium 7440-41-7 Cadmium 7440-43-9 Chromium 7440-47-3 Copper 7440-50-8 Lead 7439-92-1 Mercury 7439-97-6 Nickel 7440-02-0 Selenium 7782-49-2 Silver 7440-22-4 Thallium 7440-28-0 Zinc 7440-66-6 Cvanide 57-12-5

#### **PESTICIDES**

Aldrin 309-00-2 alpha-BHC 319-84-6 beta-BHC 319-85-7 gamma-BHC 58-89-9 delta-BHC 319-86-8 Chlordane 57-74-9 4,4'-DDD 72-54-8 4,4'-DDE 72-55-9 4,4'-DDT 50-29-3 Dieldrin 60-57-1

Acenaphthene 83-32-9

Endosulfan I 115-29-7 Endosulfan II 115-29-7 Endosulfan Sulfate 1031-07-8 Endrin 72-20-8 Endrin Aldehyde 7421-93-4 Heptachlor 76-44-8 Heptachlor Epoxide 1024-57-3

PCB (7 Aroclors) Toxaphene 8001-35-2

Diethyl Phthalate 84-66-2

#### **BASE/NEUTRAL COMPOUNDS**

Acenapthylene 208-96-8 Anthracene 120-12-7 Benzidine 92-87-5 Benzo(a)anthracene 56-55-3 Benzo(a)pyrene 50-32-8 3,4 Benzofluoranthene 205-99-2 Benzo(ghi)Perylene 191-24-2 Benzo(k)fluoranthene 207-08-9 Bis(2-chloroethoxy) Methane 111-91-1 Bis(2-chloroethyl) Ether 111-44-4 Bis(2-chloroisopropyl) Ether 102-60-1 Bis(2-ethylhexyl) Phthalate 117-81-7 4-Bromophenyl Phenyl Ether 101-55-3 Butyl Benzyl Phthalate 85-68-7 2-Chloronaphthalene 91-58-7 4-Chlorophenyl Phenyl Ether 7005-72-3 Chrysene 218-01-9 Dibenzo(a,h)anthracene 53-70-3 1,2-Dichlorobenzene 95-50-1 1.3-Dichlorobenzene 541-73-1 1,4-Dichlorobenzene 106-46-7 3,3' Dichlorobenzidine 91-94-1

Dimethyl Phthalate 131-11-3 Di-n-butyl Phthalate 84-74-2 2,4-Dinitrotoluene 121-14-2 2,6-Dinitrotoluene 606-20-2 Di-n-octyl Phthalate 117-84-0 1,2-Diphenylhydrazine 122-66-7 Fluoranthene 206-44-0 Fluorene 86-73-7 Hexachlorobenzene 118-74-1 Hexachlorobutadiene 87-68-3 Hexachlorocyclopentadiene 77-47-4 Hexachloroethane 67-72-1 Indeno(1,2,3-cd)pyrene 193-39-5 Isophorone 78-59-1 Naphthalene 91-20-3 Nitrobenzene 98-95-3

Nitrobenzene 98-95-3 N-nitrosodimethylamine 62-75-9 N-nitrosodi-n-propylamine 621-64-7 N-nitrosodiphenylamine 86-30-6 Phenanthrene 85-01-8 Pyrene 129-00-0 1,2,4-Trichlorobenzene 120-82-1

GO TO NEXT PAGE

U.	If yes, specify the material and quantity used.	ies used at this facility?	Yes
	Landscaping chemicals are rarely used at S of chemicals is dictated by the Port's SWP car facility and the proposed equipment was chemicals might be stored or used. They a or aircraft/ vehicle maintenance occurs.	PP. The boiler and cooling tower ash rack are isolated from areas w	s, the rental here these
7.	Are there other pollutants that you know of or the If yes, specify the pollutants and their conceavailable).		Yes analyses if
	Glycols and runway de-icing chemicals. I the boiler, cooling towers, rental car facility		
8.	Does the wastewater being discharged, or prop dangerous waste according to the procedures in		ignate as a
9.	If the answer to question 8 above is yes, how de Listed and TCLP Characteristic Wastes only, a		
	Listed Waste Dangerous	s Waste Number(s)	
	Characteristic Wastes  Ignitable Reactive Corrosive TCLP Dangerous  State Only Dangerous Wastes Toxicity Persistent	s Waste Number(s)	<u>.</u>
	Questions about waste designation under the Datact Ecology's Hazardous Waste and Toxics Pro		r 173-303 WAC,
	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) 456-2926	
	SECTION F. SEW	ER INFORMATION	
1.	Is an inspection and sampling manhole or simil If yes, attach a map or hand drawing of the faci may be combined with map in H8, if H8 is applications.	lity which shows the location of thes	Yes structures (this

# SECTION G. OTHER PERMITS

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

Synthetic Minor Air Emissions Cap, Order of Approval # 7777 (Puget Sound Clean Air Agency)

EPA Dangerous Waste ID # WAD 980 980 106

	SECTION H. STORMWATER	
1.	Do you have a Washington State Stormwater Baseline General Permit?  If yes, please list the permit number here.	No
2.	Have you applied for a Washington State Stormwater Baseline General Permit?	No
3.	Do you have any stormwater quality or quantity data?	Yes
Not	e: If you answered "no" to questions 1 or 2 above, complete questions 4 through 8.	
4.	Describe the size of the stormwater collection area.	
	a. Unpaved Areasq.ft.	
	b. Paved Areasq.ft.	
	c. Other Collection Areas (Roofs) sq.ft.	
5.	Does your facility's stormwater discharge to: (Check all that apply)	
	Storm sewer system; name of storm sewer system (operator): City of SeaTac	
	Directly to surface waters of Washington State (e.g., river, lake, creek, estuary, o	ocean).
	Specify waterbody name Miller, Walker, and Des Moines Creeks	
	Indirectly to surface waters of Washington State (i.e., flows over adjacent proper	rties first).
	Directly to ground waters of Washington State: Dry Well	
	Sanitary Sewer	
	All areas where aircraft/vehicle maintenance, aircraft/vehicle fueling and aircraft de the Port of Seattle's Industrial Waste System. Industrial Waste Water is treated and Sound per the requirements of NPDES permit WA 002465-1.	
	NPDES Permit covers storm water discharges.	
	All Discharges to the POTW are closed systems. Stormwater will not be discharged	i to the POTW.

ECY 040-177 (Rev. 6/01)

6.	Areas with industrial activities at facility: (check all that Manufacturing Building  Material Handling  Material Storage  Hazardous Waste Treatment, Storage, or Disposal  Waste Treatment, Storage, or Disposal  Application or Disposal of Wastewaters  Storage and Maintenance of Material Handling E  Vehicle Maintenance  Areas Where Significant Materials Remain  Access Roads and Rail Lines for Shipping and Remain  Other Airport	! (Refers to RCR4, Subtitle C Facilities Only) quipment
7.	Material handling/management practices	
	a. Types of materials handled and/or stored outdoors:	(check all that apply)
	Solvents Scrap Metal Petroleum or Petrochemical Products Plating Products Pesticides  POTW water streams are closed systems. Stormwater will not be discharged to the POTW.	Hazardous Wastes Acids or Alkalies Paints/Coatings Woodtreating Products Other (please list): glycols. runway/roadway anti- and de-icing chemicals
	b. Identify existing management practices employed to discharges: (check all that apply)	
	Oil Water Separator Containment Spill Prevention Surface Leachate Collection Overhead Coverage	Detention Facilities  Infiltration Basins  Operational BMPs  Vegetation Management  Other (please list):  The boiler, cooling tower, rental car  facility and the proposed equipment wash rack are regulated by SWPPP.
3.	Attach a facility site map showing stormwater drainage/codischarge points. This may be a hand drawn map if no otl last page of this application). Label this as attachment H.8.	Diaction areas discussion at
	See note on page 12 for a description of the Port of Seattle's	s Industrial Waste System.

# SECTION I. OTHER INFORMATION

1. Describe liquid wastes or sludges being generated that are not disposed of in the waste stream(s) and how they are being disposed. For each type of waste, provide type of waste, name, address, and phone number of hauler.

Aircraft sanitary waste discharged to King County STP by Emerald Services, 7343 E. Marginal Way S., Seattle, WA 98108 206-832-3000 Industrial waste sludge from Baker Tanks is hauled to TPS, 2800 104th St. S., Tacoma, WA 94444 (253-584-8430) by Emerald Services, 7343 E. Marginal Way S., Seattle, WA 98108 206-832-3000. Industrial waste sludge is also discharged to Philip Services: 1100 Oakesdale SW,

2. Describe storage areas for raw materials, products, and wastes. Renton, WA 98055, Raw material, product, and waste storage is regulated by SWPPP. (425)-204-7181.

3. Have you designated the wastes described above according to the applicable procedures of Dangerous Waste Regulations, Chapter 173-303 WAC?

Yes

Rental car wash sludge is hauled & treated by: Aqua Clean Jet 'n' Vac, 18912 SE 133<sup>rd</sup> Pl., Renton WA, 98059, (425)-271-5459.

# **SECTION J. CERTIFICATIONS**

Approval by POTW [required by WA	C 173-216-070(4)(b)]	
I approve of the discharge as describe	ed in this application.	The applicant is:
(Please select the one that applies:)	A Significant Industr	rial User
Name and location of sewer system to	o which this project wil	ll be tributary:
Midway Sewer District		
Treatment Works Owner		
3030 S. 240 St.		
Street		
Kent, WA		98032
City/State		Zip
Thin ) Place	12/18/01	Manager
Signature J Ken Kase	Date	Title
Printed Name		
Application review by Intermediate S	ewer Owner at point o	f discharge (if applicable)
I hereby acknowledge that I have revi	ewed the application f	or discharge to this sewer system.
Name and location of sewer system to	which this project wil	l be tributary:
NA		
		·
Sewer System Owner		
Street		
City/State		Zip
Signature	Date	Title
Printed Name		

1.

2.

Summary (Please che	of Attachments That May be Required for This Application: eck those attachments which are included)
<b>✓</b> C.1.	Production schematic flow diagram and water balance
C.4.	Wastewater treatment improvements
C.7.	Additional incidental materials
E.5.	Additional results of effluent testing
<b>F</b> .1.	Facility site map
<b>✔</b> H.8.	Stormwater drainage map

#### **DEFINITIONS**

#### Significant Industrial User (SIU)-

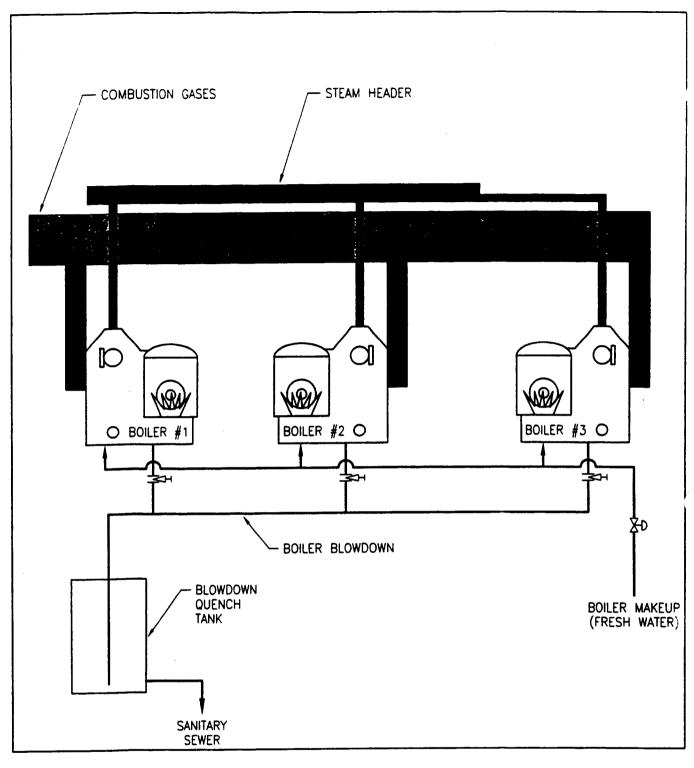
- 1) All industrial users subject to Categorical Pretreatment Standards under 40 CFR 403.6 and 40 CFR Chapter I, Subchapter N and;
- 2) Any other industrial user that: discharges an average of 25,000 gallons per day or more of process wastewater to the POTW (excluding sanitary, noncontact cooling, and 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)).

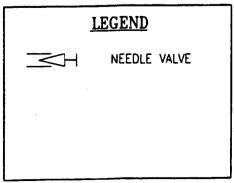
Upon finding that the industrial user meeting the criteria in paragraph 2, above, has no reasonable potential for adversely affecting the POTW's operation or for violating any pretreatment standard or requirement, the Control Authority\* may at any time, on its own initiative or in response to a petition 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 promolgated by EPA (40 CFR 403.6 and 40 CFR parts 405-471).

Last Page





# Kennedy/Jenks Consultants

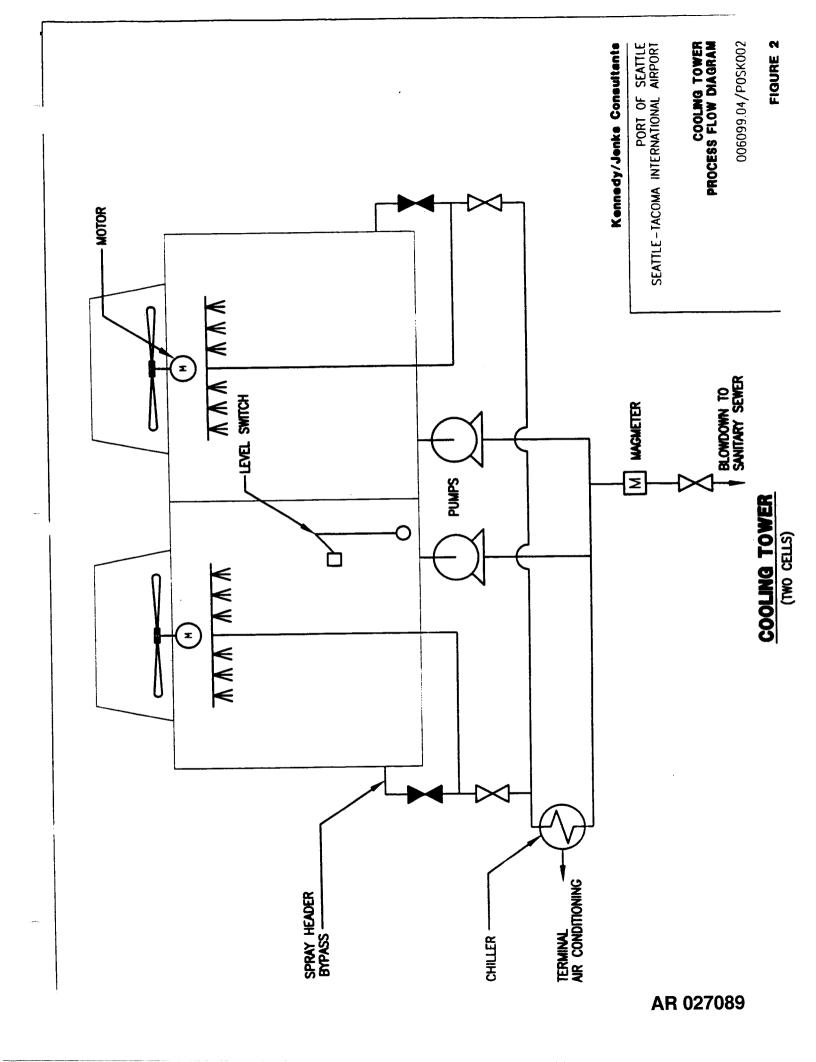
PORT OF SEATTLE SEATTLE - TACOMA INTERNATIONAL AIRPORT

BOILER BLOWDOWN PROCESS FLOW DIAGRAM

006099.04.00/P0SK00%

FIGURE 1

AR 027088



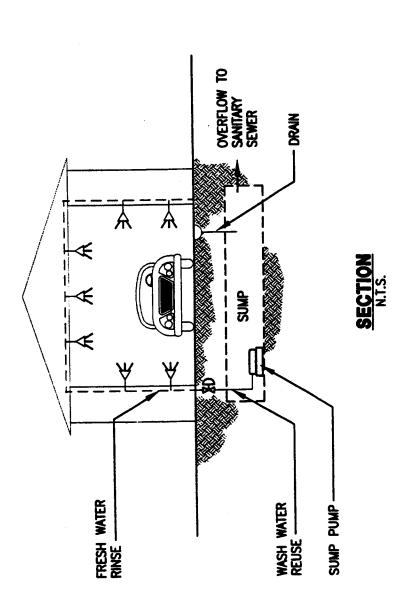
RENTAL CAR WASH

006099.04/P0SK003

PORT OF SEATILE SEATILE - TACOMA INTERNATIONAL AIRPORT

Kennedy/Jenks Consultants

EXISTING RENTAL CAR WASH HAS 10 WASH BAYS.
WASH WATER IS RECYCLED FROM SUMP. FRESH
WATER USED FOR RINSE RENTAL CAR WASH DRAIN
IS CURRENTLY CONNECTED TO INDUSTRAL WASTE
SYSTEM. CONNECTION TO SANITARY SEWER IS
SCHEDULED FOR 2002. METHOD OF CONNECTION
(GRAVITY FLOW OR FORCE MAIN) TO BE DETERMINED.



Please print or type in the uni	chaded areas only											- 5 24 22
(fill-in areas are spaced for el	lite type, i.e., 12 char	acters/i	nch).	ONMENTAL P	POT				40-0086. App			\$ 5-31-92
FORM		GF	NFF	RAL IN	O	RMAT	ION	S				T/A C
	<b>EPA</b>			idated Pe				F	WAD9809	8016		D
GENERAL	(Rei						e starting.)	1	2		13	14 15
LABEL ITEMS								16 -	GENERAL preprinted la			
I. EPA I.D. NUMBER								affi: info	x it in the designmention care orrect cross t	nated s fully; i hrough	pace. f any it and	Review the lead of it is lead of it is lead of it is lead of the l
III. FACILITY NAME						·		pel bel	rect data in thow. Also, if any sent (the area ists the	e appro of the to the	opnate preprii left d	nied data is
V. FACILITY MAILING LIST	PLEASE	PLA	CE	LABEL	IN	THIS	SPACE	app in a and I, II	pear), please parea(s) below. i correct, you i, V, and VI(ex	rovide i If the need no cept Vi less). C	t in the label in the complete to the complete	e proper fill- s complete piete Items ich must be te all items
VI. FACILITY LOCATION								and	o label has be tructions for d d for the legal a data is collect	authoriz	item ( ation (	descriptions inder which
II. POLLUTANT CHAR	ACTERISTICS											Ĭ,
INSTRUCTIONS: Complete questions, you must submit the supplemental form is atta excluded from permit require	A through J to deter	plemen	tal fron each o instruc	n listed in the question, you ctions. See a	par	entnesis to id not subm	nit any of the	uestion. se forms	You may ans	swer "no	o" if yo ed ten	ur activity is ms.
SPECIFIC QUES		YES	MAR!	FORM ATTACHED			PECIFIC QUI			YES	MAR!	FORM ATTACHED
A. Is this facility a publicly own which results in a dischar U.S.? (FORM 2A)	ned treatment works ge to waters of the		Ø		В	proposed) feeding production	include a operation of facility which	concentror aqui results in	er existing or rated animal atic animal n a discharge		⊠	
C. Is this facility which o	currently recults in	16	17	18	Ь		of the U.S.? (Fi		hose described	19	20	21
discharges to waters of those described in A or B ab	the U.S. other than	22	23	24	_	in A or B a	bove) which work the U.S.? (Fi	rill result i ORM 2D)	n a discharge	25	26	27
E. Does or will this facility trea hazardous wastes? (FORM	t. store, or dispose of		$\boxtimes$		F.	municipal ( containing,	effluent below within one q	the lowe uarter mi	lity industrial or ermost stratum ile of the well ninking water?		$\boxtimes$	
		28	29	30		(FORM 4)	will you inject a			31	32	33
G. Do you or will you inject produced water other fluids the surface in connection w natural gas production, if enhanced recovery of oil or	which are brought to ith conventional oil or iject fluids used for natural gas, or inject		$\boxtimes$		n.	special pro- Frasch pro- situ combu	cesses such as cess, solution r stion of fossil fit anergy? (FOR	s mining of a mining of a uel, or rec	of sulfer by the minerals, in		⊠	
fluids for storage of I (FORM 4)	iquid hydrocarbons?	34	35	36						37	38	39
I is this facility a proposed which is one of the 28 indu in the instructions and which	strial categories listed the strial potentially emit		Ø		J.	which is N listed in the	OT one of the e instructions a	28 indus and which	onary source trial categories will potentially air pollutant		⊠	
100 tons per year of any a under the Clean Air Act a	and may affect or be	40	41	42	ł	regulated t	under the Clea ed in an attain	n Air Act	and may affect	43	44	45
lil. NAME OF FACILIT	Y (FORM 5)	1				e be local	i gest	و. پ	g something	-		. I
SKIP Seatte-Ta	coma Internatio	nal A	irpor	t							69	
IV. FACILITY CONTAC	CT III		٠	277		1. 700	4	1 1		i Nes	03	
A	NAME & TITLE (Ia.	st, first,	& title)						area code & no			
Michael D. Feldr	nan, Director Av	/iatio	n Fac	ilities		45	206 46 48	439	51 52	706 55	_	
V. FACILITY MAILING	ADDRESS					a swit	2.5	1 🚣	Arte de la company	٠.		
	A. STREET OR I	P.O. BC	X				+ THIS I	s mark	160 "No" B	ECAUSE	THIS	KA
C P.O. Box 68727							PELMIT	RENE	WAL OF AN	<b>EXIST</b>	ING	FACILITY.
15 16 B	CITY OR TOWN				С	STATE	D. ZIP CO		WRING THE			
Seattle.	<u> </u>					/A	98168		PERMIT, TH STORMWATE	R DIS	CHAR	₩5— .
15 16				40	41	42	47	51	SEE FOR	n ZF	- /Ar	ached)

98158

D. STATE

WA

Seattle

VI. FACILITY LOCATION

17801 Pacific Highway S.,

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

B. COUNTY NAME

C CITY OR TOWN

King 46

E ZIP CODE | F COUNTY CODE

JNIINUEU FRUM INE FRUNI	C.C.			
SIL SIC CODES (4-digit, in order of priority)			B. SECO	ID.
A. FIRST	7 51	74 (spec	cifu)	
C 4851 (specify) Airifield	1 7	Pet	roleum Bulk St	orage
15   16   17	15 16	19	D. FOUR1	<del>-</del>
C. THIRD	7 7	14 (spec		) T
c 4852 (specify) Transportation by Air, schedu	7 75°		Rental	
15 16 17	15 16	19		
VIII. OPERATOR INFORMATION			•	
	AME			B. Is the name listed in Item VIII-A also the owner?
C Port of Seattle				YES NO
18 19				55
C. STATUS OF OPERATOR (Enter the appropriate letter in		Other,* specify.)		ONE (area code & no.)
F = FEDERAL M = PUBLIC (other than federal or state) S = STATE O = OTHER (specify)	M (specify)	h a situ e	206	433 5388
P = PRIVATE	Port Aut	nonty	15 16 18	19 21 22 25
E. STREET OR PO BOX				
P.O. Box 68727				
26		55	IV INDIANI A	ND
F. CITY OR TOWN	G. STATE	H. ZIP CODE	IX. INDIAN LA	
Seattle	WA	98168		ed on Indian lands?
15 16 40	42 42	47 51	☐ YES	⊠ NO
X. EXISTING ENVIRONMENTAL PERMITS		E		
A. NPDES (Discharges to Surface Water)		issions from Prop	osed Sources)	
C T WA-002465-1	9 P			
15 16 17 18 30	15 16 17 18		30	
B. UIC (Underground Injection of Fluids		OTHER (specify,	)	(Specify)
9 U	9		1	
9 U 15 16 17 18 30	15 16 17 18		30	
C. RCRA (Hazardous Wastes)		OTHER (specify)	)	(Specify)
9 R	9			
15 16 17 18 30			30	
XI. MAP				
Attach to this application a topographic map of the	area extending to a	it least one mile	beyond property	boundaries. The map must
show the outline of the facility the location of ea	ach of its existing	and proposed i	intake and discha	arge structures, each of its
hazardous waste treatment, storage, or disposal fa	acilities, and each	well where it inj	jects fluids underg	pround. Include all springs,
rivers and other surface water bodies in the map ar	ea. See instruction			
XII. NATURE OF BUSINESS (provide a brief de	scription)			loca to the sublic
Operate airfield for private business tenants	wno provides pa	assenger and	air cargo servi	ces to the public.
1				
XIII. CERTIFICATION (see instructions)				
I certify under penalty of law that I have personally	examined and am	familiar with the	e information subr	nitted in this application and
		diatalu manana	ible for obtaining	
all attachments and that, based on my inquiry of the	hose persons imme	idiately respons		the information contained in
all attachments and that, based on my inquiry of the the application, I believe that the information is to	hose persons imme ue, accurate and c	omplete. I am	aware that there	the information contained in are significant penalties for
all attachments and that, based on my inquiry of the the application, I believe that the information is the submitting false information, including the possibility.	hose persons imme ue, accurate and c ly of fine a <b>n</b> d impris	omplete. I am	aware that there	are significant penalties for
all attachments and that, based on my inquiry of the the application, I believe that the information is to	hose persons imme ue, accurate and c	omplete. I am	aware that there	are significant penalties for
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all attachments and that, based on my inquiry of the the application, I believe that the information is tresubmitting false information, including the possibility.  A. NAME & OFFICIAL TITLE (type or print)  Michael D. Feldman,	hose persons imme ue, accurate and c ly of fine a <b>n</b> d impris	omplete. I am	aware that there	are significant penalties for
all attachments and that, based on my inquiry of the the application, I believe that the information is tresubmitting false information, including the possibility.  A. NAME & OFFICIAL TITLE (type or print)  Michael D. Feldman,  Director, Aviaition Facilities	hose persons imme ue, accurate and c ly of fine a <b>n</b> d impris	omplete. I am onment.	aware that there	are significant penalties for
all attachments and that, based on my inquiry of the the application, I believe that the information is tresubmitting false information, including the possibility.  A. NAME & OFFICIAL TITLE (type or print)  Michael D. Feldman,	hose persons imme ue, accurate and c ly of fine a <b>n</b> d impris	omplete. I am onment.	aware that there	are significant penalties for

4.4 Please type or print in the unshaded areas only Form ERMIT TO DECHARGE WAS TEWATERY
MERCIAL MINING AND SILVICUTE RALE OPERATIONS NPDES I. Outfall Location For this outfall, list the latitude and longitude, and name of the Latitude -Longitude Outfall 24 3 44 Number (list) Deg 001 47 **Puget Sound** II. Flows, Sources of Poliution, and Treatment Technologies For each outfall, provide a description of (1) all operations contributing wastewater to the effluent, including process wastewater, senitary wastewater, cooling water, and stormwater runoff; (2) the average flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary. For each outfalt, provide a description of (1) all operations contributing wastewater to the effluent including process wastewater, sanitary wastewater, cooling water, and stormwater runoit (2) the everage flow contributed by each operation; and (3) the treatment received by the wastewater. Continue on additional sheets if necessary. 1. Outfall 2. Operations Contributing Flow: 3. Treatment Number b. AVERAGE FLOW a. OPERATION (IIst) a. DESCRIPTION b. LIST CODES FROM TABLE 2C-1 001 Industrial waste water Not applicable. Coagulation 2-D from airfield operations Data are not Flocculation 1-G and maintenance, available for pressure testing water average flow from Air Flotation 1-H lines, well and pipe each specific Ocean **4-B** airfield or flushing, construction Discharge maintenance dewatering, aircraft and through Outfall airfield deicing and antioperation. The icing, and chemicals average annual flow Gravity used in fighting fires that from the industrial Thickening 5-L may occur at the airport. Waste Treatment Plant for the past 3 years was 321 MG with an average daily flow of 1.8 MG.

Outfall 001 has a capacity of 7.1

MGD.

C. Except for s	om runoff, leaks, or soll ES (complete the follow	ng table)	THE WO	to Section	的兴意是	A CONTRACTOR OF THE PARTY OF TH	***	470.
1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLO	A PERWEEK	PER YEARS	1 L	VRAID STATE	TA POOR	OLUME 19	e. c. DUR-
(nat)	3.5	average) #	(1900) (1900)	With the		AVEN AND AND AND AND AND AND AND AND AND AN	THE PARTY OF	(In deys)
001	All airport operations that drain to the industrial waste system	Seasonal	12	1.32	4.32	1.32	4.32	184
		Flow data	are for the pa	st year (Oc	tober 2000 th	rough Septe	mber 2001).	
III. PRODUC	TION							
A. Does an e	fluent guideline imitatio  YES (complete item nitations in the applicable	n promulgated by	PA mor sodo	100 to Section	Manager Act ap	AND YOU BORY		
1 44 4	YES (complete item	III-CI TO THE PARTY	THE NAME OF	100 to Section	TO SECURE			
C. If you ans	wered "ves" to item III-B	. list the quantity wi	rich represents an	actual measur	ement of your lev	rel of production.	exclused 114	e legge
and units	used in the applicable of	Nuerk guideline, and	DAILY PRODUC	TION TO				ECTED
a QUANTITY PER	DAY - COMPONE							
		Not App	olicable					••
IV. IMPROVE			77		A in Manager and a selection of		A STATE OF THE STA	
operatio this app scheduk	now required by any in of wastewards (traction) in a cation? This is the cation of the							
1 IDENTIFICAT	ON OF CONDITION MENT, ETC.	V CAZAFFECTEDA	2077	4		and the first section of		
AGREE	MENT, ETC.	No. 1. L SOURC	FOFDECHARGE	3	3	7		
	ermit Special dition S4		strial Waste tment Plan		ent of glycol-c	RT alternative ( containing	for June 30, 2004	
Certification Corps of En Notice 1996 Condition J	Water Quality for US Army gineers Public 4-02325	fro op	ial wastewater m airport perations	Stormwate 4.2, 5.2.2 a	er Managemer and 7.5)	omprehensive it Plan (Section	ns Table A-3 of CSMP	
which m	AL: You may attach ad ay affect your discharge cate your actual or plann	s) you now have un ed schedules for co	derway or which	you plan." Indic	ate whether each	program is how	underway or p	enned e

#### **CONTINUED FROM PAGE 2**

Use the space below t list may be discharged from a data in your possession.	Polon record in a company was a label VAV2 of the Company of the C	ceps the reacht colors	A decision of the second of th
1. POLLUTANT	SOURCE AND	1. POLLUTANT	PASOURCE 2
Acrolein	Unknown. Detected only once (2000) in 5 analyses performed since 1994.	Ethylbenzene	Fuel spills
Phenol	Fuel spills.	Toluene	Fuel spills
Benzene	Fuel Spills	Naphthalene	Moth balls/ insecticides?
Chiorobenzene	Unknown. Detected only once (2000) in 7 analyses performed since 1994. Detected at concentration below laboratory practical quantitation limit.	Endosulfan	Unknown. Detected only on (1999) in 8 analyses since 1994.
Chloroform	Unknown. Detected only twice in 7 analyses since 1994.		
POTENTIAL DISCHAR	GES NOT COVERED BY ANALYSIS		

VII. BIOLOGICAL TOXICITY	TESTING DATAS	S	
Do you have any knowledge or neceiving water in relation to you	eason to believe that inyelological lost ( i discharg NY that in haif ( A year Y YES ( idea in Y in a heal ( ) and discribe in:		
VIII. CONTRACT ANALYSIS	INFORMATION		-
Were any of the analyses reports  YES (list ar	d in item V performed by a contract lebo the name address and isophone num styzed by, each such aboratory or am i		
A NAME	PATTAGE BADDRESS	Great cook 4 hos	DECITIVAL ANY PAGE
STL (Sound Analytical)	5755 - 8" St. E. Tacoma, WA 98424	(253) 922-2310	Oil and grease, pH, ammonia, TSS, phenois, BOD, coliforms, BTEX, priority pollutants
Analytical Resources, Inc.	333 Ninth Ave. N. Seattle, WA 98109	(206) 621-6490	glycols
Aquatic Research, Inc.	3927 Aurora Ave. N. Seattle, WA 98103	(206) 632-2715	glycols
IX. CERTIFICATION			
who manage the system or ti knowledge and belief, true, acc possibility of fine and imprisonn	at this document and all attachments we d personnel properly gather and evaluat hose persons directly responsible for g curate, and complete. I am ewere that sent for knowing violations.	e the information submitted. Based on athering the information, the informati there are significant penalties for subm	my inquiry of the person or persons on submitted is to the best of my itting take information including the
A. NAME & OFFICIAL TITLE (ty)	pe or printy		B. PHONE NO. (area code & no.)
Michael D. Feldman			(206) 439-7706
Director/Aviation Facility	ies		
C-SIGNATURE	Ldruan		D. DATE SIGNED 12/19/01

× +0 × C	ENT CHAR	ACTERISTIC	S (confinite	d from name	V. INTAKE AND EFFLUENT CHARACTERISTICS (confinied from being to Form 2.0)	35						
PARI A - TOU MUST provide the results of at least one a	ide the resu	its of at least	one, analysk	for every po	nalysis for every pollutarit in this tab	lable # Compl	ete brie tabk	Mor each ou	tfall数See ins	Ne trable for each outfall \$500 instructions for additional detail	edditional de	¥
1. POLLUTANT	O. MAXIN	A MAXIMUM DALY		2. EFFLUENT	WALK SO DAY VALUE TO SO LONG THE			September 1. District	specify if blank)	ME TO TONC	TAKE (opdk	Gar.
		11 11 11 11		1				TO CONCER	b. MASS	AVERAG	WALDEN'T	\$ <b>3</b>
a. Biochemical Oxygen. Demand (BOD)	1100				123.4		32	mg/L				
b. Chemical Oxygen 1: 3 Demand (COD)	NA									NA = Not	= Not available.	
c. Total Organic Carbon (TOC)	NA									ND = para	ND = parameter not detected	etecte
	46				12		115	mg/L				
e. Ammonia (de A)	0.27				0.04		33	mg/L				
f. Flow	Value 6	6.5	Value	85	Value 1.8	•	184	MG		Value		
g. Temperature (winter)	Value Ami	Ambient	Value		Value				ာ့	Value		
h. Temperature (eunumer)	Value Ami	Ambient	Value		Value			ာ့	O	Value		
· PASSES	Minimum 6.09	Maximum 7.67	Minimum	Maximum			115	11000				
PART B & Mark "X" In column 2-a for each pollutam you'l' framerk column 2a for any pollutam which is limited the form of the formula of the follutam is the column of the formula of the follutants.	for any po							7.77				
ANTAND THE TANKY				ALUMENTAL STATES			k.				WEI/O	
a. Bromide	WA	A STATE OF THE STA	THE SALVEY OF TH	3 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5		**************************************	The second second	TATION ES	N.S. SY	NA = No analysis	nalvsis	F
P. Chlodys.	MA									ND = Para	ND = Parameter not detected	stecte
a. Color	WA											
d Fecal	3300		3300		358		34	cfu/100				
6. Fluoride (16964-48-8).	NA											
- Night												

11 1 2 2

78 mg/L NO = NA =	ITEM V-B CONTINUED FROM FRONT	NTINUE .	ED FROI	M FRONT	Share Comes	C. Color Bank	2 FFFI LIENT SOFTEN	PARTY LA	SAME TANKS OF TANKS	Mark Control	S. UNITS	IITS	A. IN	4. INTAKE (optional)	(Jan
NA         NA           NA         <	ANT AND			A MAXIM	CAN DALLY BY	The state of the s		TO TO THE		A NO. OF	(apactly)	# blank)	* LONC	E VALUE TO	b. NO. OF
NA         NA           NA         14         3.84         78         MOL           NA         NA         NA         NA         NA	CAS NO. (If.		i	Section 1				THE STATE OF			A CONCEN	b. MASS		AND THE PROPERTY OF	AWALTSES
	g. Nitrogen, Total Organic (es N)			NA				1					NA = No a ND = Para	nalysis. Imeter not d	etected.
C   NA	h. Oil and Grease	Ø		14		14		3.84		78	mg/L				
O   NA	i. Phosphorus (es P), Tobal (7723-14-0)					,								100	
	J. Radioactivity				1000000										100 m
				NA											
□   NA	(2) Bets, Total	_		NA											
	(3) Radium, Total	1		WA											
	(4) Radium 226. Total	ĺ		NA											
	K. Suffete (es SOJ (448/8-79-8)	ŀ		WA			:							4.	
	L Suffide (as S)			NA										Page 1	
NA	m. Suffite (es SO <sub>3</sub> /(	l		WA										* ¥*	
	n. Surfactants	×		AA										î	
□         NA         NA<	o. Aluminum. Total	<u> </u>		۸A											
□         NA	p. Bankm. Total			A											
	q. Boron, Total (7440-42-8)			WA											
□         NA         NA<	r. Cobal. Total			AA											
	e. Iron, Total (7439-89-4)			MA											
	t. Magneekum, Total 77439-05-41			AA						72.110					
	u. Molybdenum. Total (7439-08-7)			AA											
□         □         NA         □	v. Manganase, Total (7439-08-5)			AA											
	w. Tin, Total (7440-31-5)			NA											
RM 3510-2C (Rev. 2-85)	x. Titanlum, Totel (7440-32-6)			NA											
	EPA FOR	A 3510	1-2C (F	lev. 2-85)				<b>1.</b>	age V-2				CON	CONTINUE ON PAGE V-3	AGE V-3

CONTINUED	CONTINUED FROM PAGE 3 OF FORM 2-C		- T		2 Z Z Z	10980980106		D980980106	001			
PART C - if you are a primary industry and this outfall contains process if factions that apply to your industry and for ALL took man it factions), mark "X" in column 2.5 for each pollutant you; it factions that fact to a heat one analysis for the pollutant you; it	u'ere a primary actions that ap rections), mark arovide the resu	ary industry: and apply to your in it, "X" in coluins auts of at least	primary industry and this outfall contains proces that apply to your industry and for ALL: took in , mark "X" in column 2-5 for each pollutant you he results of at least one innaytes for that column	you'ere a primary industry and the cuttall contains process we industry and for ALL took metals of fractions; mark "X" in column 2-5 for each pollutant you know provide the fractions of at least one analysis for the pollutant.							net test for: Mank, 77 in column, 2.4 for a reprocess to the column and control column ent. If you will column and common to column and it you to be column to be column.	Burth GCANS ubod GCAN mt. you must
	poblidants which you brow or here reads briefly describe the reasons the political additional details and requirements.	t you know of the reasons a and require	There resident								o pape (page 4) bodos (p. 1949) oppor (p. 1949	
1. POLLUT	L. Carl	L WARK X		14 (14 (14 (14 (14 (14 (14 (14 (14 (14 (	A LEGISLATION	THE STEFFINE	CUENTRE			STINU:SE- X	4 **	formal)
CAS NO (R	MO RE						7					
T.												
METALS, CYA	AMDE AND TOTAL	MOTAL										
Total (7440-39-0)	<u> </u>	₹]	<u> </u>	0.7				0.33	 	mg/L	See note.	
2M. Amenita. Total 7240-38-21			×	QN					8			
3M. Beryflum. Total	0		Ø	QN					8			
4M. Cadmium, Total			×	QN	-				6			
SM Chromam. Total		0	×	QN					3			
GM Copper, Total	×	Ø		0.022				0.014	6	mg/L	Note: One-half detection limit used for	used for
7M leed, Total (7430-97-1)	×	Ø	P	0.027				0.035	6	mg/L	those parameters for which analyses	yses
8M Mercury. Total			×	QN					60		revealed at least one nondetect during this	Juring this
Wil Nichel Total	0		×	QN					8		average concentration is greater than	than
10M Selentern,	D	×		0.049			1	0.150	3	T/6m	maximum, 1998 Priority Pollutant analyses were performed with detection	erection
11M Sheer. Total	0		×	QN					3		Ilmits much higher than analyses for 1999 and 2000.	s for 1999
12M Theffum, Total	0	0	×	QN					3		NA = No analysis. ND = Nondetect for this parameter.	iter.
13M Znc. Total	×	×	0	0.1				0.091	3	mg/L		
14M Cyanide, Total	×		×	QN					3			
15M Phenole, Total	Ø	Ø		0.14				0.04	38	mg/L		
DIOXIN 23,7,8 Tete				DESCRIBE RESULTS	SULTS	<b>的结果,但是是一种,是是一种,是一种,是一种,是一种,是一种,是一种,是一种,是一种的一种的一种,是一种的一种的一种,是一种的一种的一种,是一种的一种的一种,是一种的一种的一种,是一种的一种的一种,是一种的一种的一种,是一种的一种的一种,是一种的一种的一种,是一种的一种的一种的一种的一种,是一种的一种的一种的一种的一种的一种,是一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一种的一</b>	I A TOTAL	S. IFALLY III. S. L. I.	Water States	We demand serve		
Polach												

F1-70		A HARRY				2.	EFFLUENT			13/12/18	Diet.	SINO	W. T. INI	TAKE (options)	oriel) i int
ANT AND CAS NO. (#	NO RE-	M. b. BE.	LEVEN S												
GC/MS - VO	GC/MS - VOLATILE COMPOUNDS	POUNDS			SE S					1.48	Model		Walestan in all		
1V. Acrolein (107-02-8)	Ø	Ø		25.8				25.8		1	ng/L				
2V Acytonimie (107-13-1)	Ø			ON						1					
3V Benzene (71-43-2)	⊠	⊠		3.0				1.4		14	ng/L				
4V Be (CHOO- methyl) Ether (542-89-1)				NA											
6V Bromotorm (75-25-2)	⊠		Ø	ND						3					
6V Cerbon Tetrachloride (56-23-5)			×	ND						3					
(106-90-7)	⊠		⊠	0.049				1.8		3	ug/L	See note re	See note re: average. Chlorobe	See note re: average. Chlorobenzene	zene
8V Chlorodi bromomethene (124-48-1)	⊠		☒	QN	-					8		laboratory	practical q	laboratory practical quantitation limit	limit.
8V Choroehene (75-00-3)	Ø		⊠	ND						6					٠
ethykinyl Ether	☒		×	QN						~		Note: On calculation	ne-half dete n of average	Note: One-half detection limit used for calculation of average concentration for	used for tion for
11V Chloroform (67-86-3)	Ø	Ø		99.0				1.93		3	ng/L	those para	meters for	those parameters for which analyses	/ses
12V Dichloro- bromoethere (75-71-8)				NA								reporting p	seriod. Wh	reporting period. Where long term	E 1
13V Dichloro- difluoromethene (75-71-8)				ND						1		average co maximum,	ncentration 1998 Prio	average concentration is greater than maximum, 1998 Priority Pollutant	
14V 1,1-Dichlore- ethane (75-34-3)	⊠		Ø	QN						£		limits muc	ere perion th higher th	analyses were performed with detection limits much higher than analyses for 1999	for 1999
16V 12-Dichloro- ethere (107-06-2)	⊠		×	QN						3		and 2000. NA = No analysis.	analysis.		
16V 1,1-0kHore- ethytene (75335-4)	⊠		×	ND						3		ND = Non	detect for t	ND = Nondetect for this parameter	<u>ie</u> .
17V 1,2-Dichlare- propere (78-87-5)	⊠		Ø	ND				!		3					
iev 1,3-Dichero- propylene (542-78-6)	Ø		⊠	ND						3					
19V Ethytberzene (100-41-4)	⊠	×		13				4.75		14	ng/L				
20V Methyl Bromide (74-83-9)	Ø		Ø	QN						3					
21V Methyl Chloride (74-87-3)	⊠		☒	ND					·	3					

	Contional	A TO OC	8		limit used for	entration for analyses	tect during this	n maximum,	lyses were	99 and 2000.	reje mer				The Report of the											
	4. INTAKE	AT POSSIBLE OF THE PROPERTY OF			Note: One-half detection limit used for	calculation of average concentration for those parameters for which analyses	revealed at least one nondetect during this reporting period. Where long term average	concentration is greater than maximum,	1998 Priority Pollutant analyses were nerformed with detection limits much	higher than analyses for 1999 and 2000	NA = No analysis. ND = Nondetect for this parameter				- M - 264-11											
	UNITS	thy II blank)	b. MASS		Note: (	those par	revealed	concentr	1998 Pri	higher th	N = N = N = N = N = N = N = N = N = N =															
UMBER	3.0		CONCER		ng/L			7/6n							100			ng/L							mg/L	
OUTFALL NUMBER 001	No. of Party			100	3	3	3	14	3	3	3	3	3	3		3	60	8	3	3	3	3	3	3	38	3
				361 W											32 De 18											
em 1 of Forn	A. 1. 1/2				1.80			13										0.82							0.04	
(copy from It	FFLUENT									·					20 m											
I.D. NUMBER (copy from Item 1 of Form 1) D980980106	WAS 2 EFFLUEN			1.5											A A Laborator											
	T.			H-700 H											11.											
	THE AND PARTY OF	THE REAL PROPERTY.			0.19	QN	QN	37	ON	QN	QN	ND	ND	ND		S	ND	1.7	ND	ND	ND	ND	QN	QN	0.14	QΝ
		C. BE.		onthred).		×	Ø		×	×	Ø	⊠	⊠			×	×		Ø	×	Ø	Ø	×	⊠		☒
E V-4	THE REPARK X IN			- VOLATILE COMPOUNDS (continued)	Ø			Ø							COMPOU			Ø							Ø	
FROM PAG		NO REST		ATILE CON	×	×	⊠	⊠	☒	☒	Ø	☒	×	Ø	TION ACI	×	×	⊠	×	×	×	×		×	⅓	Ø
CONTINUED FROM PAGE V-4	1. POLLUT	ANT AND	evalebie	GC/MS - VOL	22 V Methylene Chloride (75-09-2)	Chloroethere (79-34-6)	24V Tetrachore ediylene 127-18-4	(108-98-3)	Dichlorostytems (156-80-5)	chloroethere (71-55-0)	chloroshans (79.00-5)	20V   Inches	SOV Inchipro- fluoromethene (75-69-4)	Chierde (75-01-4)	GC/MS FRACTION VACID COMPOUNDS	1A 2-Chteroptens (95-57-8)	24 2 4-Dichlere phenol (120-83-2)	34 2.4-Dimetryl- phenol (105-67-9)	4.4 4.6-Dinate- O-cresol (534-62-1)	54 2,4-Dining- phenol (51-28-5)	6A 2-Nitro- phenol (88-75-5)	7A 4-Nino- phenol (100-02-7)	M-Cresol (9-50-7)	ationshand (87-86-5)	(10,96-2)	chicrophenoi (86-06-2)

4. INTAKE (optional)	ALUE FOR ANALYSE	SO										3 4/2 5	e Version					Verage	alyses were	999 and 2000.	sed for carculation or those	yses revealed at	petoe		AGE V-7
A. INTA	IN TO THE WATER																	Note: Where long term average	1998 Priority Pollutant analyses were	higher than analyses for 1999 and 2000	Office that detection finite used for calculation of average concentration for those	parameters for which analyses revealed at least one nondetect during this reporting	period. NA = No analysis. ND = Parameter not detected		CONTINUE ON PAGE V-7
STIND S. CALL	(specify if ble	W GAT TO THE WAY		_												ng/L		ug/L Note	8661	highe	ug/L of ave	Γ	period NA = I		
No. of Paris	Tane to			3	60	6		3	3	3	3	က	6	60	60	60	က	3	3	3	3	e.	6	3	
ANNIAN CALL																									
TOWN				0.20												2.54		1.02			0.00				9-/
2. EFFLUENTAME			经外外利																						Page V-6
Z PATRICINAL NA																									
DE 18 7 W.			经验的																						
HALL MECES			COMPOUNDS	0.5	QN	QN	NA	QN	ND	QN	QN	ND	QN	ND	ND	4.9	ND	0.4	QV	ND	0.17	ND	QN	ND	
143	LEVED		nodwoo 1		×	Ø		×	×	Ø	⊠	$\boxtimes$	⊠	$\boxtimes$	×		⊠		×	⊠		⊠	⊠	⊠	5)
2 MARK X			IS FRACTION - BASEMEUTRAL	×												Ø		⊠			⊠				(Rev. 2-8
	PNO REAL		MON BA	☒	Ø	×	☒	×	$\boxtimes$	☒	×	☒	⊠	Ø	×	⊠	⊠	×	×	×	⊠	☒	⊠	⊠	3510-2C
1. POLLUT.	ANT AND IT		GC/MS FRAC	(83-52-6)	(6-96-902)	38 Anthraces (120-12-7)	48 Benzidhe (92-87-5)	58 Benzo (d) . Aribracana 2 (60-65-3)	68 Benzo (a) -	78 3,4 Bergo- Pucranthene (205-89-2)	Perytens (ph)	Fluoranthane (207-06-9)	108 Bla/2- Chlorosthary Methers	(111-44-4)	Checkenge (C)	Ang Professor	pheny Pheny Eter (101-86-19	7.00 P. C.	Traph Balance	they (705-72-3)	188 Chrysene (218-01-8)	Anthracene Anthracene (85-70-3)	208 1,3.0.dtave- benzene (95-50-1)	218 1,3-Dichiere- benzene (541-73-1)	EPA FORM 3510-2C (Rev. 2-85)

÷ 1								_				
CAS NOT		A WAK X	LEVED			NE MEE					V. II blank V. II blank V. II blank V. II blank V. II see	A CHORDEN CONTROL
Tanzana (	×			QN					3			Notes: NA = No analysis.
106-46-7)	⊠		Ø	QN					6			ND = Parameter not detected.
	×	×		0.76			0.45		6	ng/L		randatates and dinitrototicene were detected in sample blanks or at concentrations below the
288 Dimensi	Ø	Ø		7.7			2.58		8	ng/L		practical quantitation limit. Results are as reported without
PROFILE PROFILE (131-11-5)	×	Ø		99.0			1.18		60	ng/L		correction for sample blank contamination.
278 2 4 Comp.	×	Ø		0.24			0.25		60	ng/L		Note: Where long term
006-20-20	Ø		⊠	ND					6			average concentration is greater than maximum, 1998 Priority
298 DLN Oslyl Profession 18	⊠	Ø		1.1			0.69		6	ng/L		Pollutant analyses were performed with detection limits
12.00.7) F	⊠		×	ND								much higher than analyses for 1999 and 2000. One-half detection limit need for
200 44 O TE	Ø	Ø		0.21			0.10		8	na/L		calculation of average
228 Fluores 4	×	Ø		1.9			1.13		6	7/bn		concentration for those
chlorobengers	Ø		Ø	ND					6			revealed at least one nondetect
1	Ø		Ø	ND					60			uning ans reporting period.
	×		×	QN					6			
	⊠		Ø	ON					6			
778 Indone (1.2.3-cd Pyress (190-39-5)	⊠		Ø	ND					62			
78-58-1)	Ø		×	ND					63			
(01-20-3)	Ø	×		12			12		1	na/L		
408 Nachergane (96-85-3)	Ø		×	QV					n			
418 N.Mano.	Ø		×	QV					'			
A28 H.Nemed H. Propylamins (621-64-7)	×		×	QN					60			
FORM	3510-2C	EPA FORM 3510-2C (Rev. 2-85)	5)			Page V-7	7				CONT	CONTINUE ON REVERSE

CONTINUED FROM THE FRONT	FROM THE	FRONT		<b>的</b> 是一种,他们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们们	CHICKES / 2.	72. EFFLUENT			3. CNI	115	4. INTA	4. INTAKE (optional)	(Jan
COS NOS			C. BE.						*((spectfy)	S Santo	AVERAGE VALUE	ALUE (	b. NO. OF
Coches PRICE	TION SEA	Servetifies	COMPONIOS		25.42.6				TO THE STATE OF				,
314	×		Ø	QN			3	3			NA = No analysis	alysis.	
(86-01-) FEE	Ø	Ø		0.5			0.41	8	ng/L		ND = Parameter not detected.	neter not	
458 Pyrene 315 (128:00-0) 25	×	⊠		0.21			0.10	3	ng/L				
448 1.2.4-Trk- chkrobenzene (120-62-1)	Ø		⊠	QN				က					
P~ i-	CTION - PESTICIDES	STICIDES						The Charles					1.5
10 Add 10 20 CO	×		⊠	QN				3					
20 P.Brc 7. 18	⊠		Ø	ON				3					
4P - BHC (1814)	$\boxtimes$		Ø	QN				3					
210-36-8)	Ø		Ø	QN				က					
67-74-9) < 1.1	×		$\boxtimes$	an				3					
(SO 25 - 1)	×		×	QN				3					
( 19 EX	×		×	QN				က			śę.		
(empa)	×		X	QN				3					
100-Disable	X		Ø	ON				3					
110 - Ends 115.20-7)	☒	×		0.014			0.008	6	ng/L				
12P p.Endo.	Ø		Ø	an				3					
8uffate (1.0)	⊠		⊠	ND				3					
14P Endth (72-20-6)	×		⊠	QN				င					
15P Endrin Aldehyde (7421-83-4)	×		×	an				က					
16P Hapta- Chtor (78-44-6)	×		×	an				3					į

11 Procession   12	CONTINUED FROM PAGE V-6 WAD980980106	Difformal)  B. ANALLYSE S. TOO!	NTAKE (op NGE VALUE NO analysis. Parameter r	ND AND dete	T Diank of the second of the s	S.U. (specify, invarious i	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3			J. H. WENT	30980106 30980106 30980108	132 per personal degrees and desired	ND N	ABSERTAL SERVICE OF SE	2 Walk Y	PROM PAC	CONTINUED  1. POLLUT  ANT AND  CAS NO. (#)  CAS NO. (#)  GC/MS : PER  1024-57-3)  18P PCB-124  (1104-28-2)  20P PCB-124  (
	Lange   Lang						3						ND	⊠		×	19P PCB-1264 (11097-09-1)
	2 WAK X  LEVED LEV	not	o analysis arameter r td.	ND = P. detecte			. n						S S	<b>X X</b>	<b>-</b>		(1024-57-5) 18P PCB-1242 (53-489-21-9)
8	2 WRK X  1 b. BE. C. BE. L. WAXHOUR DALY THE WAY THE CONTROL OF CO		o analysis.	NA = Ř			3					2	ND	×		×	Expedde
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United States Environmental Protection Agency Washington, DC 20460

# Form 2F NPDES



# Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

### Paperwork Reduction Act Notice

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 401 M St., SW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

#### I. Outfall Location

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. Outfall Number (list)	E	3. Latitud	е	С	. Longitu	de	D. Receiving Water (name)
002 (SDE4)	47	26	30	122	17	45	Des Moines Creek(east branch)
NW Pond outlet	47	25	45	122	18	45	Des Moines Creek (west branch)
Lake Reba outlet	47	28	00	122	19	00	Miller Creek
009 (SDS4)	47	25	30	122	18	30	Des Moines Creek (west branch)
SDW1-A3	47	27	30	122	19	15	Miller Creek
SDW1-B3	47	27	15	122	19	15	Miller Creek
SDW2 <sup>3</sup>	47	27	00	122	19	15	Walker Creek
SDN3-A*	47	27	45	122	19	15	Miller Creek
	-	-		<del> </del>			
Table notes	† · · · · · · · · · · · · · · · · · · ·						

- 1. consolidates current outfalls 004 (SDS2), 005 (SDS3), 010 (SDS7), 014 (SDS6), 015 (SDS5), the future 019 (SDW3) and non-Port drainage at Northwest Ponds outlet
- 2. consolidates current outfalls 006 (SDN1), 007 (SDN2), 008 (SDN3), 011 (SDN4), other non-industrial Port drainage and non-Port drainage at Lake Reba outlet
- 3. future outfall

#### II. Improvements

A. Are you now required by any Federal, State, or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

Identification of Conditions,	2	. Affected Outfalls		1	ince Date
Agreements, Etc.	number	source of discharge	Brief Description of Project	a. req.	b. proj.
401/404 permit conditions	ali	Airport operations, roadways, pervious and impervious surfaces	Monitoring of construction and mitigation projects, Implementation of Comprehensive Stormwater Management Plan (CSMP)		See Table A-3 of CSMP
	Ĭ	1		1	1

B. You may attach additional sheets describing any additional water pollution (or other environmental projects which may affect your discharges) you now have under way or which you plan. Indicate whether each program is now under way or planned, and indicate your actual or planned schedules for construction.

#### III. Site Drainage Map

Attach a site map showing topography (or indicating the outline of drainage areas served by the outfall(s) covered in the application if a topographic map is unavailable) depicting the facility including: each of its intake and discharge structures; the drainage area of each storm water outfall; paved areas and buildings within the drainage area of each storm water outfall, each known past or present areas used for outdoor storage or disposal of significant materials, each existing structure control measure to reduce pollutants in storm water runoff, materials loading and access areas, areas where pesticides, herbicides, soil conditioners and fertilizers are applied; each of its hazardous waste treatment, storage or disposal units (including each are not required to have a RCRA permit which is used for accumulating hazardous waste under 40 CFR 262.34); each well where fluids from the facility are injected underground; springs, and other surface water bodies which receive storm water discharges from the facility. See attached maps for existing and future drainage.

				surfaces (including paved areas	and building roofs) draine
Outfall	outfall, and an estimate of the t Area of Impervious Surface	Total Area Drained	Outfall	Area of Impervious Surface	Total Area Drained
Number	(acres)	(acres)	Number	(acres)	(acres)
002 (SDE4)	97( current) <sup>2</sup> 126 (future )	149 (current) <sup>2</sup> 166 (future)	SDW1-B	27 (future )	97 (future )
003 (SDS1)	14( current)² 16 (future )	16 (current) <sup>2</sup> 18 (future)	SDW1-A	15 (future )	53 (future )
NW Ponds	237'( current) <sup>2</sup> 279	573'(current) <sup>2</sup> 563 <sup>3</sup> future)	SDW2	10 (future )	45 (future )
Lake Reba	50'( current) <sup>2</sup> 62 <sup>1</sup> (future )	119'(current) <sup>2</sup> 181 <sup>1</sup> (future)	SDN3-A	8 (future)	30 (future)
009 (SDS4)	21( current) <sup>2</sup> 32 (future )	63 (current) <sup>2</sup> 65 (future)			
Table not	es				

- 1. does not include Port non-industrial areas and non-Port drainage areas tributary to the outfall
- 2. acreage from 2001 Port of Seattle Annual Stormwater Monitoring Report
  - B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas; and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

Significant materials are not treated, stored or disposed at Sea-Tac Airport where they could contaminate stormwater runoff. All areas with industrial activities such as aircraft fueling, aircraft de-icing, and vehicle maintenance drain to the Industrial Waste System (see Form 2C). There is some stormwater exposed to construction activities. Construction projects have site-specific Stormwater Pollution Prevention Plans (SWPPPs), which include erosion/ sediment control, spill prevention, hazardous materials handling and monitoring plans (Special Condition S13 of NPDES permit WA002465-1).

Application of pesticides, herbicides, soil conditioners and fertilizers is addressed in the Port's Stormwater Pollution Prevention Plan (SWPPP) for Airport Operations (Special Condition S12).

Outfall		Treatment	List Codes from Table 2F-1
Number //	Treatment consists of	the BMPs listed in the Port's Stormwater Pollution	1-U
	Prevention Plan (SWP) detention facilities. Me by filter strips and bios servicing, ground de-ic erosion in non-constru- landscape, airfield mai temporary storage of s  As a BMP, stormwater of fresh and used engi- aircraft and vehicle wa water: aircraft, runway	PP) including detention of stormwater in stormwater uch of the stormwater generated by the airfield is treated swales, prior to discharge. The SWPPP addresses aircraft cing/ anti-icing, snow storage, spills, construction sites, action areas, vehicle washing and maintenance, intenance, inappropriate connections and discharges, surplus materials, and tenant activities on Port property.  Tunoff from drainage areas that could receive discharges in a fluids; aviation and ground service vehicle fuels; ash water; aircraft lavatory wastwater, hangar floor wash y, and roadway de-icing and anti-icing chemicals; pipe	1-G, 1-H, 4-B
	testing and flushing w runoff is routed to the treated by dissolved a storage areas are desi	ater; groundwater de-watering; and some construction Industrial Waste Treatment Plant (IWTP) where it is ir flotation units prior to dischare to Puget Sound. Snow gned to drain to the IWTP.	
	cleaning, proper labeli airport tenants with ex which include BMPs, s plans. Port and tenan Plan Update or disturk Pollution Prevention F sediment control, spill	econdary containment, covering, sweeping, catch basing and disposal, and employee education. Port and all terior operations develop Water Pollution Control Plans, spill control plans, and hazardous waste management to construction sites which are part of the Port's Master of more than 5 acres develop construction Stormwater Plans, which include monitoring plans, erosion and tresponse, and hazardous material management.	
	The stormwater gener with alum or polymers discharge.	ated by many Port construction sites is chemically treated to reduce total suspended solids and turbidity prior to	1-G
	The Port has develope Containment and Cou	ed and is responsible for implementing a Spill Control, ntermeasure Plan (SPCCC).	
	property such as state	storm drain outfalls receive runoff from non-Port highway 518 and local streets.	
Dischar	Stormwater ges		
stor	ritify under penalty of law that mwater discharges, and that all m 2E application for the outfall.	the outfall(s) covered by this application have been tested or evaluated for mon-stormwater discharges from these outfall(s) are identified in either an accordance.	ne presence of nor npanying Form 2C c
Name of Of	ficial Title (type or print)	Signature Date Sig	•
	D. Feldman,	12/19	2 / 1 /

flows. Much of this work has focused on drainage within the landside subbasins SDE4 (002), SDN1 (006) and SDS1 (003) in the past 5 years and has resulted in the elimination of all known inappropriate connections with

the storm drainage system.

VI.	Sian	ificant	Leaks	or	Spills
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Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released

The Port's Industrial Waste System is designed to contain and treat industrial wastewater that could be contaminated by spills and leaks of fuel and other materials. (see Form 2C)

Over the past three years, there was one minor spill of jet fuel, which occurred on April 28, 1999 from a 747 aircraft fuel tank expansion relief valve on a wing tip emergency relief valve. Most of the spilled fuel was contained on the airfield and recovered before reaching the drainage system. It was estimated that less than 5 gallons of fuel reached Des Moines Creek.

WAD98098016

VII. Discharge Information		Mall American Aban and Aban an	her in the coase projuded
A.B.C. & D. See instruction before proceeding	Complete one set of tables for each o included on separate sheets numbered	uttall. Annotate the outtail nutti VII-1 and VII-2	iper in the space provided.
E Potential discharges not covered by analy	sis - is any toxic pollutant listed in tab	le 2F-2, 2F-3, or 2F-4, a subsi	ance or a component of a
substance which you currently use or manu	ufacture as an intermediate or final prod	luct or byproduct?	
Yes (list all such pollutants below)		X 1	No (go to Section IX)
	•	•	
VIII. Biological Toxicity Testing	Data Data		
Do you have any knowledge or reason to believ	e that any biological test for acute or cl	ronic toxicity has been made o	on any of your discharges or
on a receiving water in relation to your discharg	e within the last 3 years?	_	_
Yes (list all such pollutants below)			No (go to Section IX)
Whole effluent toxicity (WET) chara	cterization testing was perfor	med on stormwater dis	charge samples from
A outfalle as required by the current	t NPDES permit. This testing	was performed וה זששש	ang 1999. Kunon
was sollected from 2 to 5 storms for	r each outfall (SDE4 (002), Sl	353 (005), SDN1 (006) a	NG SUN4 (U11)). I NIBE
outfalls (SDE4, SDS3, and SDN4 pa	ssed Washington State acute	репоглапсе standard:	DN1 Subsequent
and P. promelas (fathead minnow))	. Acute toxicity to both organ	IISMS TOUNG IN OULIAII S	on i. Subsequeill n material was the
WET testing demonstrated that sto	rmwater associated with unco	paled gaivarilized rooming	y material was the montrinoff These
source of the toxicity. The Port has test results have been reported to t	s been investigating manager the Weshington Department of	f Ecology in individual	reports (Nov 1998-
test results have been reported to τ July 1999) and a final WET testing :	(ne wasnington bepartment o	Leology III III airidda.	oporto (not roto
July 1999) and a miai WET testing :	Summary report (may 2000).		
• •		s was re-sampled and a	nalyzed for WET
As part of this permit application, t	the runoff from all four outfall	s was re-sampled and a	nalyzed for WET
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As part of this permit application, toxicity in November/ December 20 IX. Contact analysis Information Were any of the analysis reported in item VII p  Yes (list the name, address, and teles analyzed by, each such laborated) A Name  Aquatic Research, Incorporated  X. Certification I certify under penalty of law the supervision in accordance with a the information submitted. Based directly responsible for gathering belief, true, accurate, and complete including the possibility of fine and A. Name & Official Title (type or print)  Michael D. Feldman, Director, Avidoc, Signature	the runoff from all four outfalls  on the runoff from all four outfalls  performed by a contact laboratory or core ephone number of, and pollutants tory or firm below)  B. Address  3927 Aurora Avenue North, Seattle, WA 98103  that this document and all attacts system designed to assure that on my inquiry of the person or performation, the information attention the information of the informa	achments were prepared equalified personnel propersons who manage the submitted is, to the beginificant penalties for submitted.  B Area Code a 206-439-776 D. Date Signed	D. Pollutants Analyzed pH, fecal coliform, TPH, TSS, turbidity, BOD5, glycols, metals, fluoride, surfactants, phosphorus  d under my direction or perly gather and evaluate system or those persons est of my knowledge and mitting false information, and Phone No.
As part of this permit application, toxicity in November/ December 20  IX. Contact analysis Information  Were any of the analysis reported in item VIII p  Yes (list the name, address, and teles analyzed by, each such laborated)  A. Name  Aquatic Research, Incorporated  X. Certification  I certify under penalty of law the supervision in accordance with a the information submitted. Based directly responsible for gathering belief, true, accurate, and complete including the possibility of fine and A. Name & Official Title (type or print)  Michael D. Feldman, Director, Avidor.	the runoff from all four outfalls  on the runoff from all four outfalls  performed by a contact laboratory or core ephone number of, and pollutants tory or firm below)  B. Address  3927 Aurora Avenue North, Seattle, WA 98103  that this document and all attacts system designed to assure that on my inquiry of the person or performation, the information attention the information of the informa	C. Area Code & Phone No. 206-632-2715  achments were prepared to qualified personnel propersons who manage the properson of the person of the	D. Pollutants Analyzed pH, fecal coliform, TPH, TSS, turbidity, BOD5, glycols, metals, fluoride, surfactants, phosphorus  d under my direction or perly gather and evaluate system or those persons est of my knowledge and mitting false information, and Phone No.
As part of this permit application, toxicity in November/ December 20 IX. Contact analysis Information Were any of the analysis reported in item VII p  Yes (list the name, address, and teles analyzed by, each such laborated)  A Name  Aquatic Research, Incorporated  X. Certification  I certify under penalty of law the supervision in accordance with a the information submitted. Based directly responsible for gathering belief, true, accurate, and completincluding the possibility of fine and A. Name & Official Title (type or print)  Michael D. Feldman, Director, Avidentical States of the print of the	the runoff from all four outfalls  on the runoff from all four outfalls  performed by a contact laboratory or core ephone number of, and pollutants tory or firm below)  B. Address  3927 Aurora Avenue North, Seattle, WA 98103  that this document and all attacts system designed to assure that on my inquiry of the person or performation, the information attention the information of the informa	achments were prepared equalified personnel propersons who manage the submitted is, to the beginificant penalties for submitted.  B Area Code a 206-439-776 D. Date Signed	D. Pollutants Analyzed pH, fecal coliform, TPH, TSS, turbidity, BOD5, glycols, metals, fluoride, surfactants, phosphorus  d under my direction or perly gather and evaluate system or those persons est of my knowledge and mitting false information, and Phone No.

PH (std units)

VII. Discharge Information (Continued from page 3 of Form 2F)

Minimum 6.3 Maximum 10.7

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil & Grease TPH¹ (mg/l, NWTPH-Dx)	8.7	N/A	2.1	No data <sup>r</sup>	28	passenger, service, construction and maintenance vehicle traffic, aircraft taxiing
Biological Oxygen Demand (BOD5, mg/l)	No data'	335	No data'	19	26	ground surface de-icing
Chemical Oxygen Demand (COD)	No data'	No data <sup>2</sup>	No data'	No data	N/A	N/A
Total Suspended Solids (TSS, mg/l)	No data'	250	No data'	57	26	Roadway aggregate wear, ground surface deicing abrasives (sand) atmospheric deposition and construction
Total Organic Nitrogen	No data <sup>2</sup>	No data'	No data	No data <sup>2</sup>	. N/A	N/A
Total Phosphorus	No data*	No data <sup>2</sup>	No data*	No data	N/A	N/A

Minimum Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1)

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Maximum

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

OUTFALL SDE4 (002)	3	m Values		e Values	Number	
Pollutant		le units)	(include units)		Of	
And	Grab Sample	<b>e</b> 1	Grab Sample	Flow-weighted	Storm Events	
CAS Number	Taken During	Flow-weighted	Taken During First 30	Composite	Sampled	
(if available)	First 30 Minutes	Composite	Minutes	Composite	Sampled	Sources of Pollutants
ecal coliform MPN/100ml)	>1600	No data <sup>4</sup>	1585	No data <sup>4</sup>	28	small wild animals and birds
Fluoride* (mg/l)	0.62	No data	0.19	No data	15	domestic water
OG-3 TPH (mg/l.	8.7	No data	2.1	No data*	28	passenger, service,
WTPH-Dx)						construction and
		i				maintenance vehicle
						traffic, aircraft taxiing
					40	
Surfactants* (MBAS, mg/l)	0.89	No data	0.26	No data*	16	See footnote 2
Copper, total	No data	0.032	No data	0.016	26	See TPH above
recoverable <sup>1</sup> (mg/l)						
Lead, total recoverable¹ (mg/l)	No data	0.031	No data	0.009	26	See TPH above
Zinc. total	No data	0.197	No data	0.101	26	See TPH above
recoverable (mg/l)		0				
Table notes	<del> </del>					
1. routine stormwater i	monitoring parame	ter required for this	outfall by NPDES	permit (WA-002465	j-1).	
2 fluoride and surfact:	ants are not requir	ed stormwater moni	itoring parameters	in the current NPD	ES permit (WA	A-002465-1). These parameters
	r special source-tr	acing studies on an	as-needed basis a	(EOG) when the cui	rent NPDES	nermit was renewed in 1998
have been analyzed to		1) parameter replac	ed oil and grease	(FOG) WHEIT THE CO	TENT NE DES	Setting was reflewed in 1990.
3 the total petroleum	hydrocarbons (TPI	- starmustar monit	oring in current ND	DES namet AVA-0	17465-11	
<ol> <li>the total petroleum</li> <li>parameter/sample t</li> </ol>	hydrocarbons (TPI ype not required fo	r stormwater monit	oring in current NP	DES permit (WA-00	02465-1)	
the total petroleum     parameter/sample t     peometric mean	ype not required for	r stormwater monit	oring in current NP	DES permit (WA-00		ge Monitoring Reports (DMRs) a
3. the total petroleum 4. parameter/sample t 5. geometric mean 6. data for other param Annual Stormwater Mo	ype not required for neters have been popularity and Reports a	or stormwater monitories or stormwater monitor	oring in current NP d to the Washingto DES permit require	n Department Ecok ments (WA-002465	ogy in Dischar	
<ol> <li>the total petroleum</li> <li>parameter/sample t</li> <li>geometric mean</li> <li>data for other paran</li> <li>Annual Stormwater Mc</li> <li>data listed are for s</li> </ol>	ype not required for neters have been pointoring Reports a torm runoff event s	or stormwater monit previously submitte ccording to the NPI namples in the perio	oring in current NP d to the Washingto DES permit require d 10/15/98 through	n Department Ecoloments (WA-02465	ogy in Dischar i-1) the reporting	criteria of the NPDES permit (WA
<ol> <li>the total petroleum</li> <li>parameter/sample t</li> <li>geometric mean</li> <li>data for other paran</li> <li>Annual Stormwater Mo</li> <li>data listed are for s</li> <li>002465-1) and the Por</li> </ol>	ype not required for neters have been positioning Reports a torm runoff event set of Seattle's Processing	or stormwater monit previously submitted coording to the NPI camples in the period	oring in current NP d to the Washingto DES permit require d 10/15/98 through	n Department Ecoloments (WA-002465 in 10/15/01 that met	ogy in Dischar i-1) the reporting ( Special Condi	criteria of the NPDES permit (WA
<ol> <li>the total petroleum</li> <li>parameter/sample t</li> <li>geometric mean</li> <li>data for other paran</li> <li>Annual Stormwater Mo</li> <li>data listed are for s</li> <li>002465-1) and the Por</li> </ol>	ype not required for neters have been positioning Reports a torm runoff event set of Seattle's Processing	or stormwater monit previously submitted coording to the NPI camples in the period	oring in current NP d to the Washingto DES permit require d 10/15/98 through	n Department Ecoloments (WA-02465	ogy in Dischar i-1) the reporting ( Special Condi	criteria of the NPDES permit (WA tion S2.B). composite sample.
Annual Stormwater Mo 7. data listed are for si 002465-1) and the Por	ype not required for neters have been positioning Reports a torm runoff event set of Seattle's Processing	or stormwater monit previously submitted coording to the NPI camples in the period	oring in current NP d to the Washingto DES permit require d 10/15/98 through	n Department Ecoloments (WA-002465 n 10/15/01 that met ng (NPDES permit um values for the fl	ogy in Dischar i-1) the reporting of Special Conditions weighted of	criteria of the NPDES permit (WA
3 the total petroleum 4 parameter/sample t 5 geometric mean 6 data for other paran Annual Stormwater Mc 7 data listed are for s 002465-1) and the Por Part D - Provide 1.	ype not required for meters have been positioning Reports a form runoff event story for Seattle's Proceed at a for the story 2.	previously submitted coording to the NPI amples in the periodedure Manual for St event(s) which res	oring in current NP d to the Washingto DES permit require d 10/15/98 through commuter Monitoria ulted in the maxim 3.	n Department Ecok ments (WA-002465 n 10/15/01 that met ng (NPDES permit i um values for the fi A Number of hou	ogy in Dischar (-1) the reporting of Special Conditions weighted of ow weighted of ours between	criteria of the NPDES permit (WA tion S2.B). composite sample.  5.
3. the total petroleum 4. parameter/sample t 5. geometric mean 6. data for other param Annual Stormwater Mc 7. data listed are for s 002465-1) and the Por Part D - Provide 1. Date of	ype not required for neters have been unitoring Reports a torm runoff event story Seattle's Proceedata for the story 2.  Duration	previously submitted coording to the NPI amples in the periodedure Manual for St event(s) which res	oring in current NP d to the Washingto DES permit require d 10/15/98 through cormwater Monitorin sulted in the maxim 3.	n Department Ecoloments (WA-002465 n 10/15/01 that met ng (NPDES permit sum values for the fill Number of house beginning of s	ogy in Dischar -1) Special Condi ow weighted ours between torm meas-	criteria of the NPDES permit (WA tion S2.B). composite sample.
3. the total petroleum 4. parameter/sample t 5. geometric mean 6. data for other param Annual Stormwater Mc 7. data listed are for s 002465-1) and the Por Part D - Provide 1.  Date of Storm of	ype not required for neters have been positoring Reports a form runoff event stored for the stored 2.  Duration Storm Event	previously submitted coording to the NPI amples in the periodure Manual for Statevent(s) which res	oring in current NP d to the Washingto DES permit require d 10/15/98 through cormwater Monitorin sulted in the maxim 3. I rainfall storm event	n Department Ecok ments (WA-002465 n 10/15/01 that met ng (NPDES permit the um values for the fit Number of hou beginning of s ured and end	ogy in Dischar -1) the reporting of Special Condition ow weighted of urs between torm meas- of previous	composite sample.  5.  Total flow from rain event
the total petroleum parameter/sample t geometric mean dual Stormwater Mc data for other parameter/sample t d	ype not required for neters have been unitoring Reports a torm runoff event story Seattle's Proceedata for the story 2.  Duration	previously submitted coording to the NPI amples in the periodure Manual for Statevent(s) which res	oring in current NP d to the Washingto DES permit require d 10/15/98 through cormwater Monitorin sulted in the maxim 3.	n Department Ecoloments (WA-002465 n 10/15/01 that met ng (NPDES permit sum values for the fill Number of house beginning of s	ogy in Dischar -1) the reporting of Special Condition ow weighted of urs between torm meas- of previous	criteria of the NPDES permit (WA tion S2.B). composite sample. 5. Total flow from
3. the total petroleum 4. parameter/sample t 5. geometric mean 6. data for other param Annual Stormwater Mc 7. data listed are for s 002465-1) and the Por Part D - Provide 1.  Date of Storm of Event (	ype not required for neters have been positoring Reports a torm runoff event st of Seattle's Proceedata for the storm 2.  Duration Storm Event in minutes)	previously submitted coording to the NPI amples in the periodure Manual for State event(s) which resulting sources (in i	oring in current NP d to the Washingto DES permit require id 10/15/98 through cormwater Monitorin sulted in the maxim 3. I rainfall storm even!	n Department Ecok ments (WA-002465 n 10/15/01 that met ng (NPDES permit) um values for the fi Number of hou beginning of s ured and end measurable	ogy in Dischar -1) the reporting of Special Condition ow weighted ours between torm meas- of previous rain event	criteria of the NPDES permit (WA tion S2.B). composite sample. 5. Total flow from rain event (gallons or specify units)
3. the total petroleum 4. parameter/sample t 5. geometric mean 6. data for other param Annual Stormwater Mc 7. data listed are for s 002465-1) and the Por Part D - Provide 1.  Date of Storm of Event (i	ype not required for neters have been positioning Reports a form runoff event stored for the stored 2.  Duration Storm Event in minutes)	previously submitted coording to the NPI amples in the periodure Manual for State event(s) which resulting submitted uring submitted to the coordinate of th	oring in current NP d to the Washingto DES permit require id 10/15/98 through comwater Monitoria sulted in the maxim 3. I rainfall storm even!	n Department Ecoloments (WA-002465 n 10/15/01 that met um values for the fill with the coloment of t	ogy in Dischar the reporting of Special Conditions special Conditions ow weighted of urs between torm meas- of previous rain event	triteria of the NPDES permit (WAtion S2.B).  composite sample.  5.  Total flow from rain event (gallons or specify units)  vents. The Port of
3. the total petroleum 4. parameter/sample t 5. geometric mean 6. data for other paran Annual Stormwater Mc 7. data listed are fors 002465-1) and the Por Part D - Provide 1. Date of Storm of Event (i	ype not required for neters have been positioning Reports a form runoff event stored for the stored 2.  Duration Storm Event in minutes)	previously submitted coording to the NPI amples in the periodure Manual for State event(s) which resulting submitted uring submitted to the coordinate of th	oring in current NP d to the Washingto DES permit require id 10/15/98 through comwater Monitoria sulted in the maxim 3. I rainfall storm even!	n Department Ecoloments (WA-002465 n 10/15/01 that met um values for the fill with the coloment of t	ogy in Dischar the reporting of Special Conditions special Conditions ow weighted of urs between torm meas- of previous rain event	triteria of the NPDES permit (W/stion S2.B). composite sample.  5.  Total flow from rain event (gallons or specify units)
3 the total petroleum 4 parameter/sample t 5 geometric mean 6 data for other param Annual Stormwater Mc 7 data listed are for s 002465-1) and the Por Part D - Provide 1. Date of Storm of Event (i	ype not required for neters have been positioning Reports a form runoff event stored for the stored 2.  Duration Storm Event in minutes)	previously submitted coording to the NPI amples in the periodure Manual for State event(s) which resulting submitted uring submitted to the coordinate of th	oring in current NP d to the Washingto DES permit require id 10/15/98 through comwater Monitoria sulted in the maxim 3. I rainfall storm even!	n Department Ecoloments (WA-002465 n 10/15/01 that met um values for the fill with the coloment of t	ogy in Dischar the reporting of Special Conditions special Conditions ow weighted of urs between torm meas- of previous rain event	triteria of the NPDES permit (WA tion S2.B). composite sample. 5. Total flow from rain event (gallons or specify units)

Flow measurements are by ISCO 4150 area-velocity Doppler flowmeter.

## WAD98098016

	it provide the resultions for additional d	its of at least one alletails	nalysis for every po	illutant in this table	Complete o	one table for each outfall. See
Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil & Grease TPH' (mg/l, NWTPH-Dx)	1.6	N/A	0.9	No data		passenger, service, construction and maintenance vehicle traffic, vehicles on non- Port public roads
Biological Oxygen Demand (mg/l BOD5)	No data	7.7	No data*	7.0	2	ground surface de-icing (source of aircraft glycols removed Sept 2000)
Chemical Oxygen Demand (COD)	No data <sup>2</sup>	No data <sup>2</sup>	No data <sup>2</sup>	No data	NA	N/A
Total Suspended Solids (mg/l TSS)	No data <sup>2</sup>	93	No data'	47		Roadway aggregate wear, ground surface deicing abrasives (sand) atmospheric deposition construction
Total Organic Nitrogen	No data	No data²	No data²	No data'	NA	N/A
Total Phosphorus	No data <sup>z</sup>	No data <sup>2</sup>	No data <sup>2</sup>	No data*	NA	N/A
PH (std units)	Minimum 6.7	Maximum 7.8	Minimum	Maximum	5	NPDES permit was renewed in

1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1)

Pollutant	Maximum Values (include units)			e Values le units)	Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2 C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

Continued fro	m the Fron	t					
Part C -	List each	pollutant shown ii	n Tables 2F-2, 2F-	<ol> <li>and 2F-4 that you one table for each</li> </ol>	u know or have rea	son to believe	is present. See the instructions for
OUTEAU CE	additiona			Average	Values	Number	
OUTFALL SDS1 (003) Pollutant		Maximum Values (include units)			e units)	Of	
And		Grab Sample	e units)	Grab Sample	1	Storm	
CAS Nu		Taken During	Flow-weighted	Taken During	Flow-weighted	Events	
(if availa		First 30	Composite	First 30	Composite	Sampled	
(" 645")	,,,,	Minutes		Minutes			Sources of Pollutants
Fecal coliforn	n'	>1600	No data	35°	No data	4	small wild animals and
(MPN/100ml)	)			i ;		1 :	birds
Fluoride* (mg	g/l)	0.09	No data	0.08	No data	4	domestic water
FOG TPH (	ma/l.	1.6	No data	0.9	No data	4	passenger, service,
NWTPH-Dx)							construction and
							maintenance vehicle
				•			traffic, vehicles on non-
į				:		1	Port public roads
ļ					No data	6	(source of aircraft and
Surfactants'	(MBAS.	3.9	No data	0.9	No data		•
mg/l)				!		!	service vehicle
							washwater removed Sept
							2000)
Copper, tota	ł	No data	0.366	No data	0.110	4	See TPH above
recoverable <sup>1</sup>	(mg/l)				0.005	4	See TPH above
Lead, total	ms	No data	0.009	No data	0.005	4	See IPH above
recoverable <sup>1</sup> Zinc. total	(mg/l)	No data	0.206	No data	0.138	4	See TPH above
recoverable	(ma/l)	NO GATA	0.200	710 Out	0.750	1	000 // // 00000
Tecoverable	(High)						
Table notes		<del> </del>					
1 soution st	ormwater n	nonitoring parame	ter required for this	outfall by NPDES	permit (WA-00246	5-1).	
2 fluoride a	nd surfacta	nts are not require	ed stormwater mon	itoring parameters	in the current NPD	ES permit (WA	A-002465-1). These parameters
have been a	natured for	enacial source-tra	cino studies on ar	n as-needed basis a	at certain outfalls.		
3 the total	netroleum h	vdrocarbons (TPI	i) parameter replac	ced oil and grease	(FOG) when the cu	rrent NPDES	permit was renewed in 1998.
		pe not required fo	r stormwater moni	toring in current NP	DES permit (WA-0	02465-1)	
5. geometri	c mean			das de Mastinata	- Deserment Ecol	agy in Dischar	as Maniforing Panade (DMPs) and
Annual Stor	mwater Mo	nitorino Reports ai	coording to the NP	DFS permit require	ments (WA-00246)	5-1)	ge Monitoring Reports (DMRs) and
7 data liste	d are for st	orm rupoff event s	amples in the period	nd 10/15/98 through	n 10/15/01 that met	the reporting of	criteria of the NPDES permit (WA-
002465-1) a	ind and the	Port of Seattle's F	Procedure Manual 1	for Stormwater Mor	ntoring (NPDES pe	mit Special C	ondition 52.8).
	- Provide		event(s) which res	sulted in the maxim	aum values for the f	iow weighted (	5.
1.		<b>2</b> .		<b>3</b> .	Number of ho	urs between	1
Date of		Duration	Tota	ıl rainfall	beginning of sto		Total flow from
1 - 1		. ~		***	_		rain avent

Date of Storm Event	2.  Duration of Storm Event (in minutes)	3.  Total rainfall  during storm event  (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Total flow from rain event (gallons or specify units)
		<u></u>		<u> </u>

Maximum data listed for each parameter occurred in samples from multiple storm events. The Port of Seattle's Annual Stormwater Reports (1999, 2000 and 2001) list rainfall and flow estimates for events sampled.

-	Danwida a	deceriation o	f tha	mathed of	flow measurement of	r estimate
1.	Provide a	description o	HIE	method or	flow measurement of	n commerc

Flow measurements are by ISCO 4150 area-velocity Doppler flowmeter.

No data

No data

Minimum 7.4

**Total Organic** 

**Phosphorus** 

PH (std units)

Nitrogen

Total

deicing abrasives (sand), atmospheric deposition, construction

N/A

N/A

N/A

N/A

N/A

No data'

No data

Maximum

VII. Discharge Information (Continued from page 3 of Form 2F)

No data

No data

Maximum 7.9

	t provide the resuns for additional of		nalysis for every po	ollutant in this table	Complete o	ne table for each outfall. See
Pollutant	Maximum Values (include units)		, •	Values e units)	Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
<del>Oil &amp; Grosse</del> TPH <sup>1</sup> (mg/l, NWTPH-Dx)	0.31	N/A	0.17	No data	3	passenger, service, construction and maintenance vehicle traffic, vehicles on non- Port public roads
Biological Oxygen Demand mg/l, (BOD5)	No data <sup>2</sup>	5.8	No data	3.9	2	no known Port sources
Chemical Oxygen Demand (COD)	No data <sup>*</sup>	No data'	No data <sup>2</sup>	No data'	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data²	65	No data <sup>2</sup>	35	3	Roadway aggregate wear, ground surface

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3 This current NPDES outfall discharges to Northwest Ponds and will be represented at the Northwest Pond outlet, which consolidates multiple discharges.

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility s NPDES

No data

No data

Minimum

Pollutant	Maximum Values (include units)		_	e Values le units)	Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial WasteTreatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See Vii A	See VII A (above)

OUTFALL SDS2 (004)	details and requirements. Complete one Maximum Values		Average Values		Number	
Pollutant		le units)		e units)	Of Storm	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Events Sampled	Sources of Pollutants
Fecal coliform' (MPN/100ml)	900	No data	119³	No data	3	small wild animals and birds
luoride* (mg/l)	No data	No data	No data	No data	N/A	Domestic water
FOG 3 TPH (mg/l. NWTPH-Dx)	0.31	No data <sup>*</sup>	0.17	No data	3	passenger, service, construction and maintenance vehicle traffic, vehicles on non Port public roads
Surfactants* (MBAS. mg/l)	No data	No data	No data	No data	N/A	N/A
Copper, total recoverable (mg/l)	No data	0.010	No data	0.009	3	See TPH above
Lead, total recoverable (mg/l)	No data	0.006	No data	0.003	3	See TPH above
Zinc, total recoverable (mg/l)	No data	0.213	No data	0.094	3	See TPH above
Table notes		<del>                                     </del>				
1. routine stormwater mo	nitoring parameter	required for this ou	tfall by NPDES per	mit (WA-002465-1)	).	
2. fluoride and surfactan	s are not required to	stormwater monitor	ing parameters in t led basis at certain	ne current NPDES outfalls.	permit (WA-0	02465-1). These parameters ha
3 the total petroleum by	drocarbons (TPH)	parameter replaced	oil and grease (FC	<ul><li>G) when the currer</li></ul>	nt NPDES per	mit was renewed in 1998.
4. parameter/sample typ	e not required for s	tormwater monitorir	ng in current NPDE	S permit (WA-0024	65-1)	
5 geometric mean						
Annual Stormwater Moni	toring Reports acco	ming to the NPDES	S permit requireme	nts (WA-002465-1)		Monitoring Reports (DMRs) and
7. data listed are for stor	m runoff event sam	ples in the period 1	0/15/98 through 10 mwater Monitoring	/15/01 that met the (NPDES permit Sp	reporting criti ecial Conditio	eria of the NPDES permit (WA- n S2.B).
8. This current NPDES o	utfall discharges to	Northwest Ponds a	and will be represer	ited at the Northwe	st Pond outlet	which consolidates multiple
Part D - Provide d	ata for the storm ev	ent(s) which result	ed in the maximum	values for the flow	weighted com	posite sample.
1.	2.		3.	4.		5.
Date of	Duration	Tota	ıl rainfall	Number of hor beginning of sto		Total flow from
	Storm Event	during s	storm event	and end of		rain event
	n minutes)	(in	inches)	measurable		(gallons or specify units)

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by Manning equation in round pipe with level measured by ISCO 4230 (bubbler) flowmeter.

N/A

(Continued from page 3 of Form 2F) VII. Discharge Information Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details Average Values Number Maximum Values Of **Pollutant** (include units) (include units) Grab Sample Grab Sample Storm And **Events** Flow-weighted Taken During **CAS Number** Taken During Flow-weighted (if available) First 30 Composite First 30 Composite Sampled **Minutes** Sources of Pollutants **Minutes** No data 30 N/A 0.21 service, construction 2.7 Oil & Grease TPH and maintenance vehicle (mg/l, NWTPH-Dx) traffic, aircraft taxiing and landing No data 68 29 ground surface deicing 646 Biological Oxygen No data Demand (mg/l, BOD5) No data N/A N/A No data No data No data Chemical Oxygen Demand (COD) 26 27 Runway/taxiway 310 No data No data Total Suspended Solids (mg/l, TSS) aggregate wear, ground surface deicina abrasives (sand), atmospheric deposition, construction No data N/A N/A No data Total Organic No data No data Nitrogen

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. This current NPDES outfall discharges to Northwest Ponds and will be represented at the Northwest Pond outlet which consolidates multiple discharges

No data'

Minimum

No data'

Maximum 7.7

No data

Minimum 7.0

Total Phosphorus

PH (std units)

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

N/A

30

No data

Maximum

Pollutant		m Values de units)		e Values le <i>units)</i>	Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

Continued from the Front

OUTFALL SDS3 (005) <sup>8</sup> Pollutant		m Values le units)	•	e Values e units)	Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Fecal coliform (MPN/100ml)	>1600	No data	7°	No data	29	small wild animals and birds
Fluoride' (mg/l)	No data	0.15	No data*	N/A	1	Domestic water
FOG- <sup>3</sup> TPH (mg ! NWTPH-Dx)	2.75	No data <sup>4</sup>	0.21	No data <sup>4</sup>	30	service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Surfactants* (MBAS, mg/l)	0.08	0.08	0.08	0.08	2	No known Port sources
Copper, total recoverable (mg/l)	No data	0.111	No data*	0.030	28	See TPH above
Lead, total recoverable (mg/l)	No data	0.043	No data*	0.003	28	See TPH above
Zinc, total recoverable (mg/l)	No data	0.189	No data	0.045	28	See TPH above
Table notes	<u> </u>		i			

2. fluoride and surfactants are not required stormwater monitoring parameters in the current NPDES permit (WA-002465-1). These parameters have been analyzed for special source-tracing studies on an as-needed basis at certain outfalls.

3. the total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998.

4. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1)

5. geometric mean

6. data for other parameters have been previously submitted to the Washington Department Ecology in Discharge Monitoring Reports (DMRs) and Annual Stormwater Monitoring Reports according to the NPDES permit requirements (WA-002465-1)

7. data listed are for storm runoff event samples in the period 10/15/98 through 10/15/01 that met the reporting criteria of the NPDES permit (WA-002465-1) and the Port of Seattle's Procedure Manual for Stormwater Monitoring (NPDES permit Special Condition S2.B).

8. This current NPDES outfall discharges to Northwest Ponds and will be represented at the Northwest Pond outlet which consolidates multiple discharges

ı	Part D	- Provide data for the storm ever	it(s) which resulted in the maximum	values for the flow weighted comp	posite sample.
	1.	2.	3.	4	5.
	Date of Storm Event	Duration of Storm Event (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Total flow from rain event (gallons or specify units)

Maximum data listed for each parameter occurred in samples from multiple storm events. The Port of Seattle's Annual Stormwater Reports (1999, 2000, and 2001) list rainfall and flow estimates for events sampled.

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by stage-discharge equation for primary structure with level measured by ISCO 4230 (bubbler) flowmeter.

(Continued from page 3 of Form 2F) VII Discharge Information

Pollutant		m Values le units)	Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil & Grease TPH¹ (mg/l, NWTPH-Dx)	0.08	N/A	0.08	No data'	5	service, construction and maintenance vehicle traffic
Biological Oxygen Demand (mg/l. BOD5)	No data'	4	No data	N/A	1	ground surface deicing
Chemical Oxygen Demand (COD)	No data²	No data'	No data'	No data'	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data'	58	No data	25	5	Roadway aggregate wear, ground surface deicing abrasives (sand) atmospheric deposition, construction
Total Organic Nitrogen	No data	No data'	No data	No data	N/A	N/A
Total Phosphorus	No data'	No data*	No data'	No data'	N/A	N/A
PH (std units)	Minimum 6.3	Maximum 7.7	Minimum	Maximum	4	

PH (std units) Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. This current NPDES outfall discharges to Northwest Ponds and will be represented at the Northwest Pond outlet which consolidates multiple discharges

Poliutant		m Values de units)		e values le units)	Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C.	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

Continued from the Front

OUTFALL SDS5 (015)* Poliutant	Maximu	nents Complete on m Values le units)	Average	e Values e units)	Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken Dunng First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Fecal coliform (MPN/100ml)	>1600	No data	70°	No data	4	small wild animals and birds
Fluoride* (mg/l)	No data	No data	No data	No data	N/A	N/A
FOG- <sup>3</sup> TPH (mg/l, NWTPH-Dx)	0.08	No data <sup>s</sup>	0.08	No data	5	service, construction and maintenance vehicle traffic
Surfactants* (MBAS.	No data	No data	No data <sup>*</sup>	No data	N/A	N/A
Copper_total recoverable (mg/l)	No data	0.014	No data*	0.010	5	See TPH above
Lead, total recoverable (mg/l)	No data	0.003	No data	<0.002	5	See TPH above
Zinc. total recoverable (mg/l)	No data	0.129	No data*	0.037	5	See TPH above
Table notes						
routine stormwater more     fluoride and surfactants been analyzed for special	s are not required s	tormwater monitori	ng parameters in t	he current NPDES	permit (WA-0	02465-1). These parameters have

5. geometric mean

6. data for other parameters have been previously submitted to the Washington Department Ecology in Discharge Monitoring Reports (DMRs) and

Annual Stormwater Monitoring Reports according to the NPDES permit requirements (WA-002465-1)

7. data listed are for storm runoff event samples in the period 10/15/98 through 10/15/01 that met the reporting criteria of the NPDES permit (WA-002465-1) and the Port of Seattle's Procedure Manual for Stormwater Monitoring (NPDES permit Special Condition S2.B).

8. This current NPDES outfall discharges to Northwest Ponds and will be represented at the Northwest Pond outlet which consolidates multiple

discharges

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

1	1.	2.	3.	4.	5.
	Date of Storm Event	Duration of Storm Event (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Total flow from rain event (gallons or specify units)

Maximum data listed for each parameter occurred in samples from multiple storm events. The Port of Seattle's Annual Stormwater Reports (1999, 2000 and 2001) list rainfall and flow estimates for events sampled.

7	Provide a description of the method of flow measurement of estimate.	
	1 1000 1450	

Flow measurements are by ISCO 4150 area-velocity Doppler flowmeter.

VII. Discharge Information (Continued from page 3 of Form 2F)

	, 9	
Part A -	You must provide the results of at least one analysis for every pollutant in this table	Complete one table for each outrall. See
	instructions for additional details.	

Pollutant		m Values e units)		e Values e units)	Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil & Grease TPH' (mg/l. NWTPH-Dx)	0.19	N/A	0.14	No data'	4	service, construction and maintenance vehicle traffic
Biological Oxygen Demand (mg/l, BOD5)	No data²	4	No data'	N/A	7	ground surface deicing
Chemical Oxygen Demand (COD)	No data	No data	No data'	No data'	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data <sup>r</sup>	29	No data	15	3	Roadway aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction
Total Organic Nitrogen	No data'	No data*	No data	No data'	N/A	N/A
Total Phosphorus	No data'	No data'	No data <sup>2</sup>	No data'	N/A	N/A
PH (std units)	Minimum 6.6	Maximum 7.4	Minimum	Maximum	3	NDDES parmit was renewed in

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. This current NPDES outfall discharges to Northwest Ponds and will be represented at the Northwest Pond outlet which consolidates multiple discharges

Pollutant		m Values de units)		e Values le units)	Number Of		
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants	
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII A above. See Form 2C.	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)	

Continued from the Front

additional of OUTFALL SDS6 (014) <sup>8</sup> Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number Of	
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Fecal coliform (MPN/100ml)	>1600	No data	361°	No data	4	small wild animals and birds
Fluoride* (mg/l)	No data	No data	No data	No data	N/A	N/A
FOG- <sup>3</sup> TPH (mg/l, NWTPH-Dx)	0.19	No data	0.14	No data	4	service, construction and maintenance vehicle traffic
Surfactants <sup>2</sup> (MBAS, mg/l)	No data	No data	No data	No data	N/A	N/A
Copper. total recoverable¹ (mg/l)	No data	0.013	No data	0.008	3	See TPH above
Lead, total recoverable (mg/l)	No data*	0.007	No data*	0.003	3	See TPH above
Zinc, total recoverable (mg/l)	No data	0.124	No data	0.053	3	See TPH above
Table notes					†	

2. fluoride and surfactants are not required stormwater monitoring parameters in the current NPDES permit (WA-002465-1). These parameters have been analyzed for special source-tracing studies on an as-needed basis at certain outfalls.

- 3. the total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998.
- 4. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1)

- 6. data for other parameters have been previously submitted to the Washington Department Ecology in Discharge Monitoring Reports (DMRs) and Annual Stormwater Monitoring Reports according to the NPDES permit requirements (WA-002465-1)
- 7. data listed are for storm runoff event samples in the period 10/15/98 through 10/15/01 that met the reporting criteria of the NPDES permit (WA-002465-1) and the Port of Seattle's Procedure Manual for Stormwater Monitoring (NPDES permit Special Condition S2.B).
- 8. This current NPDES outfall discharges to Northwest Ponds and will be represented at the Northwest Pond outlet which consolidates multiple discharges

Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample.

i	1.	2.	3.	4.	5.
	Date of Storm Event	Duration of Storm Event (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Total flow from rain event (gallons or specify units)

Maximum data listed for each parameter occurred in samples from multiple storm events. The Annual Stormwater Reports (1999, 2000 and 2001) list rainfall and flow estimates for events sampled.

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by Manning equation in round pipe with level measured by ISCO 4230 (bubbler) flowmeter.

Minimum 7.7

PH (std units)

VII. Discharge Information (Continued from page 3 of Form 2F)

Maximum 7.9

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil & Grease TPH' (mg/l, NWTPH-Dx)	3.8	N/A	0.64	No data'	7	service, construction and maintenance vehicle traffic
Biological Oxygen Demand (mg/l, BOD5)	No data <sup>2</sup>	No data <sup>2</sup>	No data*	No data	N/A	ground surface deicing
Chemical Oxygen Demand (COD)	No data²	No data <sup>2</sup>	No data'	No data <sup>2</sup>	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data²	12	No data'	7		Roadway aggregate wear, ground surface delcing abrasives (sand) atmospheric deposition, construction
Total Organic Nitrogen	No data²	No data <sup>2</sup>	No data'	No data'	N/A	N/A
Total Phosphorus	No data	No data'	No data <sup>2</sup>	No data	NA	N//A

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. This current NPDES outfall discharges to Northwest Ponds and will be represented at the Northwest Pond outlet which consolidates multiple discharges

Minimum

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements

Maximum

Pollutant	Maximum Values (include units)		· •	Average Values (include units)		
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

Part C . I	ist each po	llutant shown in T	ables 2F-2, 2F-3, a	nd 2F-4 that you kr	now or have reason	to believe is	present. See the instructions for
Parto	idditional de	tails and requiren	nents. Complete on	e table for each ou	tfall		
DUTFALL SDS		Maximu	m Values	Average	Values Number		
Polluta		(includ	le units)	(include units)		Of	
And	İ	Grab Sample		Grab Sample		Storm	
CAS Num	ber	Taken During	Flow-weighted	Taken During	Flow-weighted	Events	
(if availa	ole)	First 30	Composite	First 30	Composite	Sampled	Sources of Pollutants
•		Minutes		Minutes	ļ	-	
ecal coliform'		500	No data*	5	No data*	7	small wild animals and
/PN/100ml)							birds
luoride' (mg/l)		No data	No data	No data	No data	N/A	N/A
OG TPH (mg	//	3.8	No data	0.64	No data	7	service, construction
WTPH-Dx)	Λ.	3.0	770 0515	0.04			and maintenance vehicle
WIFII-DA)		]			İ		traffic
	_					1	
urfactants* (M	BAS.	No data	No data*	No data*	No data*	N/A	N/A
ng/l)					0.040	4	See TPH above
opper, total		No data	0.028	No data	0.010	4	See IPH above
ecoverable <sup>1</sup> (m	ig/l)		-0.000	No. dada	<0.002	4	See TPH above
ead, total reco	verable	No data	<0.002	No data	₹0.002	•	See IPH above
ng/l)		No data	0.010	No data	0.007	4	See TPH above
inc. total reco	erable	No data	0.010	NO Uata	0.007	7	000 11 11 0000
mg/l)			<del> </del>		-	†	
			<del> </del>		<del> </del>		
able notes		<u> </u>	i de la companya de l	Mall by NIDDES page	THE CALL CO 2465.1	1	
routine stori	nwater mon	itoring parameter	required for this ou	TTAIL BY NPUES PE	he current NPDES	nermit (WA-0	02465-1) These parameters have
		<b></b>	dian on on or need	AR hacie at contain	OTIMATIE		
een analyzed	for special	source-tracing stu	dies on an as-need	oil and grease (FC	G) when the curre	nt NPDES per	mit was renewed in 1998.
the total per	roleum nyai	net required for s	tormwater monitoring	on and groupe (FE	S permit (WA-0024	(65-1)	
							****
geometric n	nean	re hove been ore	viously submitted to	the Washington D	epartment Ecology	in Discharge	Monitoring Reports (DMRs) and
1: - A	4	DIRON AVANT EST	nles in the nerind 1	.0/15/98 through 10	1/15/01 that met the	reporting crit	eria of the NPDES permit (WA-
100 40F 41 d	44 - Dad of	Castle's Drassdi	TO MODULE INC. STOR	hwater Minnitoring i	MEDEO DEILIII OM	SCIA! CUITAILIUI	1 32.0).
This curren	NPDES OF	tfall discharges to	Northwest Ponds	and will be represe	nted at the Northwe	est Pond outle	t which consolidates multiple
discharges	525 50						
3							
Part D -	Provide da	ta for the storm ex	vent(s) which result	ed in the maximum	values for the flow	weighted con	nposite sample
1.	1 101/00 00	2.		3.	4.		5.
	_		Take	l esimfall	Number of ho		Total flow from
Date of	_	ouration		il rainfall storm event	beginning of sto		rain event .
Storm		torm Event		inches)	and end of		(gallons or specify units)
Event	(in	minutes)	(#1	11101163/	measurable	rain event	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

Stormwater Reports (1999, 2000 and 2001) list rainfall and flow estimates for events sampled.

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by Manning equation in round pipe with level measured by ISCO 4230 (bubbler) flowmeter.

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instructio	ns for additional d					
Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
<del>Dil &amp; Grease</del> TPH <sup>1</sup> (mg/l, <b>NW</b> TPH-Dx)	4.9	N/A	1.7	No data	32	Passenger, service, construction and maintenance vehicle traffic, vehicles on non- Port public roads
Biological Oxygen Demand (mg/l, BOD5)	No data <sup>2</sup>	116	No data'	9.8	25	Ground surface deicing
Chemical Oxygen Demand (COD)	No data'	No data'	No data'	No data	NA	N/A
Total Suspended Solids (mg/l. TSS)	No data	366	No data'	77	26	Public roadway aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition construction
Total Organic Nitrogen	No data'	No data'	No data²	No data <sup>2</sup>	NA	N/A
Total Phosphorus	No data	No data'	No data	No data <sup>2</sup>	NA	N/A
PH (std units)	Minimum 5.1	Maximum 8.4	Minimum	Maximum	32	

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. This current NPDES outfall discharges to the Lake Reba detention facility and will be represented at the Lake Reba outlet (006) which consolidates multiple discharges

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial WasteTreatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

		etails and requiren	nents. Complete on	e table for each ou	itfall		present. See the instructions for
OUTFALL SON		100-11111	m Values	· ·	e Values le units)	Number Of	
Poilutar And		Grab Sample	le units)	Grab Sample	e uriis)	Storm	
CAS Num		Taken During	Flow-weighted	Taken During	Flow-weighted	Events	
(if availal		First 30	Composite	First 30	Composite	Sampled	
		Minutes		Minutes			Sources of Poliutants
ecal coliform MPN/100ml)		>1600	No data*	385	No data	31	small wild animals and birds
luoride' (mg/l)	)	No data	<0.05	No data	NA	1	N/A
OG TPH (mg		4.9	No data	1.7	No data	32	Passenger, service,
WTPH-Dx)	•						construction and
							maintenance vehicle
							traffic, vehicles on non-
						1	Port public roads
					0.46		
urfactants* (M ng/l)	MBAS.	No data"	0.25	No data	0.16	3	See Footnote 2
opper, total ecoverable¹ (m	ng/l)	No data	0.042	No data*	0.021	26	See TPH above
.ead, total reco mg/l)	overable'	No data	0.048	No data*	0.010	26	See TPH above
zinc, total recov	verable	No data	0.613	No data*	0.201	26	See TPH above,
mg/l)							galvanized metal roofing
							material
				1		1	
		<del></del>	<del> </del>	<del> </del>			
routine storr	mwater mor	nitoring parameter	required for this ou	trall by NPDES per	mit (WA-002465-1)		
I. routine storm	surfactants	s are not required s source-tracing stu	stormwater monitori dies on an as-need	ing parameters in t ed basis at certain	he current NPDES   outfalls.	permit (WA-00	
routine storm. If fluoride and been analyzed If the total pet	d surfactants I for special troleum hyd	s are not required s source-tracing stu- rocarbons (TPH) p	stormwater monitori dies on an as-need parameter replaced	ng parameters in to ed basis at certain oil and grease (FO	he current NPDES outfails.  O) when the currer	permit (WA-00 nt NPDES per	02465-1). These parameters have mit was renewed in 1998.
1. routine storm 2. fluoride and been analyzed 3. the total pet 4. parameter/s	d surfactants I for special troleum hyd sample type	s are not required s source-tracing stu- rocarbons (TPH) p	stormwater monitori dies on an as-need parameter replaced	ing parameters in t ed basis at certain	he current NPDES outfails.  O) when the currer	permit (WA-00 nt NPDES per	
1. routine storm 2. fluoride and been analyzed 3. the total pet 4. parameter/s	d surfactants I for special troleum hyd sample type mean	s are not required s source-tracing stu- rocarbons (TPH) p not required for st	stormwater monitori dies on an as-need parameter replaced formwater monitorin	ing parameters in the dasis at certain oil and grease (FO in current NPDE	he current NPDES outfalls. OG) when the currer S permit (WA-0024	permit (WA-00 nt NPDES pen 65-1)	mit was renewed in 1998.
1. routine storm 2. fluoride and been analyzed 3. the total pet 4. parameter/s 5. geometric m 6. data for othe	d surfactants I for special troleum hyd sample type mean ner paramete	s are not required s source-tracing stu- rocarbons (TPH) p not required for st ers have been prev	stormwater monitorionidies on an as-need parameter replaced formwater monitorionidistribution with the substitution of the sub	ing parameters in the displayment of the displaymen	he current NPDES outfalls.  OG) when the current S permit (WA-0024)  DESCRIPTION OF THE PROPERTY OF THE PROPER	permit (WA-00 nt NPDES pen 65-1) in Discharge	
routine storm for fluoride and open analyzed fluoride analyzed flu	surfactants for special troleum hyd sample type mean ner paramete water Monito are for storn	s are not required s source-tracing stu rocarbons (TPH) p not required for st ers have been prevoring Reports acco	stormwater monitoridies on an as-need parameter replaced commuter monitoring viously submitted to riding to the NPDES ples in the period 1	ing parameters in the displayment of the displayment of the Washington Displayment requirement of the Washington Displayment requirement of the Washington Displayment requirement of the displayment of th	the current NPDES outfalls.  OG) when the currer S permit (WA-0024 pepartment Ecology ints (WA-002465-1) (V15/01 that met the	permit (WA-00 nt NPDES pen 65-1) in Discharge reporting crite	Monitoring Reports (DMRs) and eria of the NPDES permit (WA-
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routine storn fluoride and een analyzed the total pet parameter/s geometric r data for othe knnual Stormw data listed a 102465-1) and This current nultiple discha Part D- 1. Date of Storm	d surfactants of for special troleum hyd sample type mean her paramete water Monito are for storn of the Port of ht NF ES or arge: Provide da  Co of Si	s are not required source-tracing sture recarbons (TPH) protection of the prevention	stormwater monitoridies on an as-need parameter replaced formwater monitoring viously submitted to riding to the NPDES ples in the period 1 re Manual for Storm the Lake Reba detent(s) which resulted the trend of the Lake Reba detent(s) which resulted the resulted t	ing parameters in the doss at certain oil and grease (FO in ing in current NPDE) the Washington Dispermit requirement o/15/98 through 10 inwater Monitoring (lention facility and vied in the maximum 3.  I rainfall storm event	he current NPDES outfalls.  IG) when the currer S permit (WA-0024 Pepartment Ecology ents (WA-002465-1) (VA-002465-1) (VA-002465	in NPDES pen 65-1) in Discharge reporting critical Condition at the Lake Riweighted communication measured	Monitoring Reports (DMRs) and eria of the NPDES permit (WA-182.B). eba outlet (006) which consolidate aposite sample.  5.  Total flow from rain event
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1. routine storm 2. fluoride and 2. fluoride and 2. fluoride and 2. fluoride and 3. the total pet 4. parameter/s 5. geometric m 5. data for othe Annual Stormw 7. data listed a 202465-1) and 8. This current multiple discha Part D- 1. Date of Storm Event  Maximum ( Stormwate)  7. Provide a d  7. Provide a d	d surfactants of for special troleum hyd sample type mean her parameter Monitor are for storm of the Port of hit NF JES or arge.  Provide da provide da liste or Report.	s are not required source-tracing sture rocarbons (TPH) per not required for size shave been prevoring Reports account runoff event same Seattle's Procedu utfall discharges to that for the storm event minutes)  and for each pales (1999, 2000, pof the method of flooding storm)	stormwater monitoring dies on an as-need in a service of the servi	ing parameters in the dosis at certain oil and grease (FO ing in current NPDE) the Washington Dispermit requirement (0/15/98 through 10 inwater Monitoring (lention facility and view in the maximum 3.  I rainfall storm event inches)  Tred in samples fall and flow estable and flow estable in the maximum inches.	he current NPDES outfalls.  OG) when the currer S permit (WA-0024 Pepartment Ecology Ints (WA-002465-1) Permit (WA-002465-1) Permit Spermit Sp	nt NPDES pen 65-1) in Discharge reporting critical Condition at the Lake R weighted community between reporting critical condition at the Lake R weighted community between reporting critical condition at the Lake R weighted community between reporting community between reporting conditions are considered as a condition of the c	Monitoring Reports (DMRs) and eria of the NPDES permit (WA-1 S2.B). eba outlet (006) which consolidate aposite sample.  5.  Total flow from rain event (gallons or specify units)

No data'

No data'

No data

No data

No data

No data

VII. Discharge Information

**Total Organic** 

PH (std units)

Nitrogen

Total Phosphorus surface deicing abrasives (sand), atmospheric deposition, construction

N/A

N/A

(Continued from page 3 of Form 2F)

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
<del>Oil &amp; Grease</del> TPH <sup>*</sup> (mg/i, NWTPH-Dx)	1.1	N/A	0.28	No data	8	service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Biological Oxygen Demand (mg/l, BOD5)	4	No data <sup>z</sup>	ય	No data*	2	ground surface deicing
Chemical Oxygen Demand (COD)	No data'	No data²	No data <sup>*</sup>	No data'	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data <sup>2</sup>	46	No data'	36	4	Runway/taxiway aggregate wear, ground

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. The drainage to this outfall is pumped to the IWS via two pump stations. Discharges to this storm drain outfall only occur if rainfall rates cause peak flows to exceed the pump design capacities (6-month, 24-hr event). Data listed are for samples from these rare bypass events. 4. This current NPDES outfall discharges to the Lake Reba detention facility and will be represented at the Lake Reba outlet (006) which consolidates multiple discharges

No data

No data

No data

No data

No data

No data

NA

N/A

N/A

000 11.0						
Pollutant	Maximum Values (include units)		,	e Values le <i>units)</i>	Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

Continued from the	Front						
Part C - List	each pollutant sh	own in T	ables 2F-2, 2F-3, an nents. Complete on	nd 2F-4 that you kill table for each ou	now or have reason	to believe is	present. See the instructions for
OUTFALL SDN2 (	(007)**		m Values		- Values	Number	
Pollutant	,0077		le units)	_	e units)	Of	
And	Grah	Sample	, , , , , , , , , , , , , , , , , , ,	Grab Sample	1	Storm	
CAS Numbe	1	During	Flow-weighted	Taken During	Flow-weighted	Events	
(if available)	1 -	t-30	Composite	First 30	Composite	Sampled	
(II available)	,	utes	Composito	Minutes			Sources of Pollutants
Canal antidami			No data	No data	No data	N/A	N/A
Fecal coliform <sup>1</sup> (MPN/100ml)		jata"					• • • • • • • • • • • • • • • • • • • •
Fluoride* (mg/l)	No o	data"	No data	No data	No data	N/A	N/A
FOG TPH (mg/l,	1	.1	No data	0.28	No data	8	service, construction
NWTPH-Dx)	!					1	and maintenance vehicle
						j	traffic, aircraft taxiing
	i						and landing
Surfactants* (MBA	IS. No	data	No data*	No data	No data	N/A	N/A
mg/l)	No.	1-4-4	No data	No data	No data	N/A	See TPH above
Copper, total recoverable¹ (mg/l	))	data"					
Lead, total recover (mg/l)	rable' No	data*	No data	No data	No data	N/A	See TPH above
Zinc, total recover	able No	data	No data	No data	No data	N/A	See TPH above
(mg/l)					<u> </u>		
(**************************************							
Table notes							
1 routine stormw	ater monitoring pa	rameter	required for this out	fall by NPDES per	mit (WA-002465-1)	١.	
2 fluoride and su	rfactants are not r	equired s	stormwater monitori dies on an as-need	ng parameters in t	he current NPDES	permit (WA-0	02465-1). These parameters have
3 the total netrole	eum hydrocarbons	(TPH) c	arameter replaced	oil and grease (FC	(G) when the currer	nt NPDES per	mit was renewed in 1998.
4. parameter/sam	nie type not requi	red for s	tormwater monitorin	a in current NPDE	S permit (WA-0024	65-1)	
5 coometric mea	<u> </u>						
5. data for other r	narameters have t	Seen nrev	viously submitted to	the Washington D	epartment Écology	in Discharge	Monitoring Reports (DMRs) and
Applied Stormwate	er Monitorina Ren	orte acco	rding to the NPDES	permit requireme	nts (WA-002465-1)		
7 data listed are	for storm runoff e	vent sam	ples in the period 1	0/15/98 through 10	)/15/01 that met the	reporting crit	eria of the NPDES permit (WA-
002465-1) and the	e Port of Seattle's	Procedu	re Manual for Storm	nn stations. Disch	arges to this storm	drain outfall o	nly occur if rainfall rates cause peak
flowe to exceed the	ne numo design ca	anacities	(6-month, 24-hr eve	ent). Data listed a	re for samples from	these rare by	pass events.
9 This current N	PDES outfall disc	harges to	the Lake Reba det	ention facility and	will be represented	at the Lake R	eba outlet (006) which consolidates
multiple discharge	P.C.						
Part D - Pr	ovide data for the	storm ev	rent(s) which resulte	d in the maximum	values for the flow	weighted con	nposite sample.
1.	2.		```	3.	4.		5.
					Number of ho	urs between	Takal Barre from
Date of	Duration			l rainfall	beginning of sto	rm measured	Total flow from
Storm	of Storm Ever	nt		torm event	and end of	previous	rain event
Event	(in minutes)		(in i	nches)	measurable	rain event	(gallons or specify units)
	ta listed for e	ach pa	rameter occuri	ed in samples ainfall and flo	s from multiple w estimates fo	storm eve er events s	ents. The Annual ampled.
Maximum da Stormwater F	Reports (1999	, 2000	2001/11011				,
Maximum da Stormwater F	Reports (1999	, 2000	<b>2001</b> )				
Stormwater F	Reports (1999						
7. Provide a des	Reports (1999	thod of flo	ow measurement or	estimate.			
Stormwater F	Reports (1999	thod of flo		estimate.			

(Continued from page 3 of Form 2F) VII. Discharge Information Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details Average Values Number Maximum Values (include units) Of **Pollutant** (include units) Grab Sample Storm Grab Sample And Taken During Flow-weighted **Events** CAS Number Taken During Flow-weighted Composite Sampled (if available) First 30 Composite First 30 Sources of Pollutants **Minutes Minutes** N/A 0.10 No data 0.20 construction and Oil & Grease TPH maintenance vehicle (mg/l, NWTPH-Dx) traffic, aircraft taxiing and landing No data 3 ground surface deicing, 222 No data 81 Biological Oxygen Demand (mg/l, BOD5) No data N/A No data No data N/A Chemical Oxygen No data Demand (COD) No data 6.3 4 Runway/taxiway No data 12 Total Suspended Solids (mg/l, TSS) aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction No data N/A No data' N/A **Total Organic** No data No data' Nitrogen N/A No data No data No data N/A No data Total **Phosphorus** Minimum 6.5 | Maximum 7.7 Minimum Maximum 6 PH (std units)

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. This current NPDES outfall discharges to the Lake Reba detention facility and will be represented at the Lake Reba outlet (006) which consolidates multiple discharges

Poliutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

additiona	details and requirer	nents. Complete on	iế table for each ou	tfall.		pesent. See the instructions for
OUTFALL SDN3 (008)* Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Fecal coliform MPN/100ml)	240	No data	65	No data	7	small wild animals and birds
Fluoride* (mg/l)	No data	No data	No data	No data	N/A	N/A
FOG TPH (mg/l. NWTPH-Dx)	1.1	No data <sup>5</sup>	0.28	No data	8	construction and maintenance vehicle traffic, aircraft taxiing and landing
Surfactants <sup>2</sup> (MBAS.	No data	No data	No data	No data	N/A	N/A
Copper, total recoverable (mg/l)	No data	0.020	No data	0.012	5	See TPH above
Lead, total recoverable (mg/l)	No data	0.010	No data	0.003	5	See TPH above
Zinc, total recoverable (mg/l)	No data⁵	0.089	No data	0.047	5	See TPH above
Table notes		-			1	
heen analyzed for speci	nts are not required s	stormwater monitor	ing parameters in ti led basis at certain	ne current NPDES outfalls.	permit (WA-00	2465-1). These parameters have
<ol><li>the total petroleum h</li></ol>	vdrocarbons (TPH) of	arameter replaced	oil and grease (FO	<ul><li>G) when the currer</li></ul>	t NPDES per	nit was renewed in 1998.
4. parameter/sample ty	pe not required for s	tormwater monitorir	ng in current NPDE	S permit (VVA-0024	05-1)	
Annual Stormwater Mos	itoring Reports acco	rding to the NPDES	S permit requireme	nts (WA-002465-1)		Monitoring Reports (DMRs) and
7. data listed are for sto 002465-1) and the Port	orm runoff event sam	ples in the period 1	10/15/98 through 10	1/15/01 that met the	reporting crite	ria of the NPDES permit (WA- S2.B).
8. This current NPDES multiple discharges	outfall discharges to	the Lake Reba de	tention facility and	will be represented	at the Lake Re	eba outlet (006) which consolidate
Part D - Provide	data for the storm ev	ent(s) which result	ed in the maximum	values for the flow	weighted com	posite sample.
1.	2.		3.	4.		5.
Date of	55.50.5		tal rainfall Number of hobeginning of st		rm measured	Total flow from rain event
	Storm Event		storm event inches)	and end of previous measurable rain even		(gallons or specify units)

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by ISCO 4150 area-velocity Doppler flowmeter.

No data

No data

Minimum 6.7

No data

No data'

Maximum 9.3

Total Organic

Phosphorus PH (std units)

Nitrogen Total construction

N/A

N/A

N/A

N/A

30

No data

No data

Maximum

#### WAD98098016

Pollutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number Of	
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
<del>Oil &amp; Grease</del> TPH <sup>1</sup> (mg/l. NWTPH-Dx)	1.6	N/A	0.17	No data <sup>2</sup>	31	construction and maintenance vehicle traffic, aircraft taxiing and landing
Biological Oxygen Demand (mg/l, BOD5)	No data <sup>2</sup>	168	No data*	13	27	ground surface deicing
Chemical Oxygen Demand (COD)	No data	No data	No data <sup>2</sup>	No data	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data <sup>2</sup>	188	No data <sup>z</sup>	13.2	26	Runway/taxiway aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. This current NPDES outfall discharges to the Lake Reba detention facility and will be represented at the Lake Reba outlet (006) which consolidates multiple discharges

No data

No data'

Minimum

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	•
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

Part C - List each po	ollutant shown in T	ables 2F-2, 2F-3, a nents Completé on	nd 2F-4 that you ki é table for éach ou	now or have reason	to believe is	present. See the instructions for
OUTFALL SDN4 ( 011)° Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Poliutants
Fecal coliform (MPN/100ml)	>1600	No data	85	No data	29	small wild animals and birds
Fluoride' (mg/l)	No data	No data*	No data	No data	N/A	N/A
FOG-3TPH (mg/l. NWTPH-Dx)	1.6	No data⁵	0.17	No data	31	construction and maintenance vehicle traffic, aircraft taxiing and landing
Surfactants <sup>2</sup> (MBAS, mg/l)	No data	0.19	No data	No data	1	See Footnote 2
Copper, total recoverable' (mg/l)	No data	0.052	No data	0.028	27	See TPH above
Lead, total recoverable (mg/l)	No data	0.006	No data	<0.002	27	See TPH above
Zinc, total recoverable (mg/l)	No data	0.127	No data*	0.027	27	See TPH above
Table notes						
routine stormwater more	nitoring parameter	required for this ou	tfall by NPDES per	mit (WA-002465-1	).	
2. fluoride and surfactants	s are not required :	stormwater monitor dies on an as-need	ing parameters in t led basis at certain	ne current NPDES outfails.	permit (VVA-U	02465-1). These parameters have
3 the total petroleum hud	rocarbons (TPH) t	parameter replaced	oil and grease (FC	(G) when the curre	nt NPDES per	mit was renewed in 1998.
parameter/sample type	not required for s	tormwater monitorir	ng in current NPDE	S permit (WA-002	465-1)	
geometric mean     data for other parameter	ers have been pre	viously submitted to	the Washington D	epartment Ecology	in Discharge	Monitoring Reports (DMRs) and
Annual Stormwater Monito  7. data listed are for storm	n runoff event sam	inles in the period 1	10/15/98 through 10	)/15/01 that met the	e reporting crit	teria of the NPDES permit (WA-
	Seattle's Procedu utfall discharges to	the Lake Reba de	tention facility and	will be represented	at the Lake F	Reba outlet (006) which consolidates
multiple discharges  Part D - Provide da	to for the storm s	ent(s) which results	ed in the maximum	values for the flow	weighted cor	mposite sample
Part D - Provide da	sta for the Storm el	resides willer leadin	2	A		5

Maximum data listed for each parameter occurred in samples from multiple storm events. The Annual Stormwater Reports (1999, 2000 and 2001) list rainfall and flow estimates for events sampled.

Total rainfall

during storm event

(in inches)

Number of hours between

beginning of storm meas-

ured and end of previous

measurable rain event

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by Manning equation in round pipe with level measured by ISCO 4230 (bubbler) flowmeter.

Total flow from

rain event

(gallons or specify units)

Duration

of Storm Event

(in minutes)

Date of

Storm

Event

# WAD98098016

Part A - You mus	ins for additional d		lalysis for every po	mutant in this table	. Complete C	one table for each outfall. See
Poliutant And CAS Number (if available)	Maximum Values (include units)		Average Values (include units)		Number Of	
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil & Grease TPH <sup>1</sup> (mg/l, NWTPH-Dx)	0.17	N/A	0.11	No data*		service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Biological Oxygen Demand (mg/l, BOD5)	No data <sup>*</sup>	10.5	No data <sup>2</sup>	6.3	2	ground surface deicing
Chemical Oxygen Demand (COD)	No data	No data'	No data'	No data	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data <sup>2</sup>	36	No data	15	3	Runway/taxiway aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction
Total Organic Nitrogen	No data*	No data'	No data <sup>2</sup>	No data	NA	N/A
Total Phosphorus	No data	No data'	No data	No data*	NA	N/A
PH (std units)	Minimum 6.8	Maximum 7.5	Minimum	Maximum	4	

Minimum Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in

1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1)

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	Maximum Values (include units)		Average Values (include units)		Number	
Pollutant					Of	
And	Grab Sample		Grab Sample	Planin-i-based	Storm	
CAS Number	Taken During	Flow-weighted	Taken During	Flow-weighted	Events	
(if available)	First 30	Composite	First 30	Composite	Sampled	
	Minutes		Minutes			Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport	Sec VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)
are listed in Part VII. A above. See Form 2C						

	_						
Continued fro	om the Fron	nollutant shown i	n Tables 2F.2 2F.	3 and 2F-4 that yo	u know or have rea	son to believe	is present. See the instructions for
Part C	additiona	details and requi	rements Complete	one table for each	outfall.		
OUTFALL SI			m Values	Average	e Values	Number	
Pollut			le units)		e units)	Of	
And	_	Grab Sample	Flow-weighted	Grab Sample Taken During	Flow-weighted	Storm Events	-
CAS Nu	- 1	Taken During First 30	Composite	First 30	Composite	Sampled	
(II avail	aure)	Minutes	Composite	Minutes			Sources of Pollutants
Fecal colifor	m'	900	No data	59 <sup>5</sup>	No data	4	small wild animals and
(MPN/100ml	)			ĺ			birds
Fluoride' (mo	g/l)	No data	No data*	No data	No data	N/A	N/A
FOG TPH	ma/l.	0.17	No data	0.11	No data	4	service, construction
NWTPH-Dx)	•	<b></b>					and maintenance vehicle
							traffic, aircraft taxiing
							and landing
Surfactants <sup>2</sup>	(MBAS	No data	No data	No data	No data	N/A	N/A
mg/l)	•	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Copper, tota		No data	0.029	No data	0.020	4	See TPH above
recoverable	(mg/l)	No data	<0.002	No data	<0.002	4	See TPH above
Lead, total recoverable	(ma/l)	No data	<b>\0.002</b>	NO Gala	~0.002	-	See IFN above
Zinc, total		No data	0.036	No data	0.018	4	See TPH above
recoverable	' (mg/l)		ļ				
				ļ	ļ	<del>                                     </del>	
Table notes				1 11 110050		1	The second secon
1. routine st	tormwater n	nonitoring parame	ter required for this	outtail by NPDES	permit (WA-00246	5-1). ES parmit (\A/A	-002465-1). These parameters
2. fluoride a	and surfacta	nts are not require special source-tra	acing studies on an	noning parameters	nt certain outfalls.	CO permit (VV)	-002+03-7). These parameters
3 the total	petroleum h	vdrocarbons (TPI	d) parameter replace	ed oil and grease	(FOG) when the cu	rrent NPDES p	ermit was renewed in 1998.
4. paramete	er/sample ty	pe not required fo	r stormwater monit	oring in current NP	DES permit (WA-0	02465-1)	
<ol><li>geometri</li></ol>	c mean				- Danadmant East	any in Disabas	ne Meetherine Benede (DMBs) and
6. data for 6	other param	eters have been p	coording to the NPI	a to the vvasningto NES nermit require	ments (WA-00246)	ogy in Dischari 5-1)	ge Monitoring Reports (DMRs) and
7 data liste	ed are for sto	orm runoff event s	amples in the pend	d 10/15/98 through	n 10/15/01 that met	the reporting o	riteria of the NPDES permit (WA-
002465-1) a	and the Port	of Seattle's Proce	edure Manual for Si	tormwater Monitori	ng (NPDES permit	Special Condit	ion S2.B).
Part D	- Provide	data for the storm	event(s) which res		um values for the fi	ow weighted co	omposite sample.
1.		2		3.	Number of ho	urs hehveen	<b>5</b> .
Date of	!	Duration		l rainfall	beginning of sto		Total flow from
Storm		Storm Event	•	storm event	and end of		rain event
Event	(ir	n minutes)	(in	inches)	measurable	rain event	(gallons or specify units)

Maximum data listed for each parameter occurred in samples from multiple storm events. The Annual Stormwater Reports (1999, 2000 and 2001) list rainfall and flow estimates for events sampled.

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by ISCO 4150 area-velocity Doppler flowmeter.

**Phosphorus** 

PH (std units)

VII. Discharge Information (Continued from page 3 of Form 2F)

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil & Grease TPH' (mg/l, NWTPH-Dx)	1.8	N/A	1.2	No data <sup>*</sup>	6	Passenger, construction and maintenance vehicle traffic, and parking
Biological Oxygen Demand (mg/l, BOD5)	No data'	24	No data'	N/A	1	ground surface deicing
Chemical Oxygen Demand (COD)	No data'	No data	No data*	No data <sup>2</sup>	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data <sup>2</sup>	128	No data*	71	6	Roadway and parking area aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction
Total Organic Nitrogen	No data	No data'	No data	No data <sup>2</sup>	N/A	N/A
Total	No data	No data	No data	No data	N/A	N/A

Minimum Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1)

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES

Maximum 7.7

Minimum 7.7

permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements

Maximum

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

Continued from the Front

OUTFALL EY (012) Pollutant	al details and requirements. Complete  Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Fecal coliform (MPN/100ml)	No data	No data	No data	No data*	N/A	N/A
Fluoride* (mg/l)	No data	No data	No data	No data	N/A	N/A
FOG-3TPH (mg/l. NWTPH-Dx)	1.8	No data	1.2	No data	6	Passenger, construction and maintenance vehicle traffic, and parking
Surfactants' (MBAS. mg/l)	No data	No data	No data	No data	N/A	N/A
Copper, total recoverable (mg/l)	No data	0.020	No data	N/A	1	See TPH above
Lead, total recoverable (mg/l)	No data	0.026	No data	N/A	1	See TPH above
Zinc, total recoverable¹ (mg/l)	No data	0.179	No data*	N/A	1	See TPH above
Table notes						
1. routine stormwater	monitoring parame	ter required for this	outfall by NPDES	permit (VVA-00246	5-1). ES permit ////	A-002465-1). These parameters

4. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1)

5. geometric mean

6. data for other parameters have been previously submitted to the Washington Department Ecology in Discharge Monitoring Reports (DMRs) and Annual Stormwater Monitoring Reports according to the NPDES permit requirements (WA-002465-1)

7. data listed are for storm runoff event samples in the period 10/15/98 through 10/15/01 that met the reporting criteria of the NPDES permit (WA-002465-1) and the Port of Seattle's Procedure Manual for Stormwater Monitoring (NPDES permit Special Condition S2.B).

Part D	- Provide data for the storm e	event(s) which resulted in the maximum	im values for the flow weighted co	imposite sample.
4	2	3.	4.	5.
Date of Storm Event	Duration of Storm Event (in minutes)	Total rainfall during storm event (in inches)	Number of hours between beginning of storm measured and end of previous measurable rain event	Total flow from rain event (gallons or specify units)

Maximum data listed for each parameter occurred in samples from multiple storm events. The Annual Stormwater Reports (1999, 2000 and 2001) list rainfall and flow estimates for events sampled.

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by Manning equation in round pipe with level measured by ISCO 4230 (bubbler) flowmeter.

(Continued from page 3 of Form 2F) VII. Discharge Information Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details Maximum Values Average Values Number (include units) Of **Pollutant** (include units) Storm Grab Sample Grab Sample And Taken During Flow-weighted Events Flow-weighted CAS Number Taken During Sampled Composite (if available) First 30 Composite First 30 Sources of Pollutants **Minutes Minutes** 8 2.7 No data Passenger, construction N/A 8.3 Oil & Grease TPH and maintenance vehicle (mg/i, NWTPH-Dx) traffic, and parking N/A No data N/A No data No data Biological Oxygen No data Demand (mg/l, BOD5) N/A N/A No data No data No data' No data Chemical Oxygen Demand (COD) 6 132 Roadway and parking 660 No data No data' Total Suspended Solids (mg/l, TSS) area aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, Construction N/A No data No data' N/A No data No data' Total Organic Nitrogen N/A N/A

Table notes: 1, total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. parameter/sample type not required for stormwater monitoring in current NPDES permit (WA-002465-1). 3. This current NPDES outfall discharges to the Port's SDE1 system and will be represented at the final subbasin outlet (013) which consolidates subbasin SDE1 discharges

No data

No data

No data'

No data

No data

No data

Total **Phosphorus** 

PH (std units)

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

No data'

No data

N/A

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	See VII A (above)	See VII A (above)	See VII A (above)	See VII A (above)	See VII A	See VII A (above)

Part C - Li	st each pollutant shown in dditional details and requ	n Tables 2F-2, 2F-3	3, and 2F-4 that yo	u know or have rea	son to believe	is present. See the instructions for
OUTFALL TY (0 Poliutant	)13) <sup>8</sup> Maximu	irements. Complete im Values de units)	Average	e Values e units)	Number Of	
And CAS Numbe (if available	Grab Sample Taken During	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
ecal coliform MPN/100ml)	No data	No data	No data	No data	N/A	N/A
luoride' (mg/l)	No data	No data*	No data	No data	N/A	N/A
OG- <sup>3</sup> TPH (mg/ WTPH-Dx)		No data	2.7	No data	8	Passenger, construction and maintenance vehicle traffic, and parking
Surfactants* (ME	AS. No data	No data	No data	No data	N/A	N/A
Copper, total recoverable (mg	No data	No data	No data	No data	N/A	N/A
Lead, total recoverable (mg	No data	No data	No data	No data	N/A	N/A
Zinc, total recoverable <sup>1</sup> (m	No data*	No data	No data	No data	N/A	N/A
Table notes						
2. fluoride and	water monitoring parame surfactants are not requir	ed stormwater mon	itoring parameters	in the current NPU	ES permit (W	A-002465-1). These parameters
3 the total patr	/zed for special source-tr	H) parameter replac	ced oil and grease	(FOG) when the cu	rrent NPDES	permit was renewed in 1998.
4 narameter/sa	ample type not required for	or stormwater monit	toring in current NF	DES permit (WA-0	02465-1)	
F						
6. data for othe	r parameters have been	according to the NP	DES permit require	ments (WA-00240:	5-11	rge Monitoring Reports (DMRs) an
7. data listed a	re for storm runoff event	samples in the perio	od 10/15/98 through	n 10/15/01 that met no (NPDES permit	tne reporting Special Cond	criteria of the NPDES permit (WA- ition S2.B).
8 This current	NPDES outfall discharge	s to the Port's SDE	1 system and will t	e represented at the	ne final subba	sin outlet (013) which consolidates
cubbacia SDE1	discharges					
Part D -	Provide data for the storn	n event(s) which res	sulted in the maxim	num values for the f	low weighted	composite sample.
1.	2.		3.	Number of ho		
Date of	Duration		ıl rainfall	beginning of sto		Total flow from
Storm Event	of Storm Event (in minutes)		storm event inches)	and end of measurable	previous	rain event (gallons or specify units)

Maximum data listed for each parameter occurred in samples from multiple storm events. The Stormwater Reports (1999, 2000 and 2001) list rainfall and flow estimates for events sampled.

7. Provide a description of the method of flow measurement or estimate.

Flow measurements are by Manning equation in round pipe with level measured by ISCO 4230 (bubbler) flowmeter.

VII. Discharge Information (Continued from page 3 of Form 2F)

		<u> </u>				
Part A -	You must provide	the results of at least	one analysis fo	or every pollutant in this table.	Complete one table for each outfa	II. See
	instructions for ac	ditional details				

	Maximu	m Values		· Values	Number	
Pollutant And CAS Number (if available)	(include units)		(include units)		Of	
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
<del>Oil &amp; Grease</del> TPH <sup>1</sup> (mg/l, <b>NWT</b> PH-Dx)	No data'	No data²	No data	No data'	N/A	service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Biological Oxygen Demand (mg/l, BOD5)	No data	No data <sup>z</sup>	No data <sup>2</sup>	No data'	N/A	ground surface deicing
Chemical Oxygen Demand (COD)	No data <sup>2</sup>	No data'	No data'	No data'	NA	N/A
Total Suspended Solids (mg/l, TSS)	No data <sup>4</sup>	No data <sup>2</sup>	No data'	No data	N/A	Runway/taxiway aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction
Total Organic Nitrogen	No data	No data*	No data <sup>2</sup>	No data'	NA	N/A
Total Phosphorus	No data	No data*	No data	No data	NA	N/A
PH (std units)	Minimum	Maximum	Minimum	Maximum	NA	

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

Part B - List each pollutant that slimited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste treatment plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	No data	No data'	No data'	No data'	No data'	No data'

Table notes: 1. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

Continued	from the	Front
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OUTFALL SDW1A		Maximum Values (include units)		Average Values (include units)		
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Fecal coliform (MPN/100ml)	No data	No data²	No data <sup>2</sup>	No data	N/A	small wild animals and birds
Fluoride* (mg/l)	No data'	No data'	No data'	No data	N/A	domestic water
FOG- <sup>3</sup> TPH (mg/l. NWTPH-Dx)	No data*	No data	No data*	No data'	N/A	service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Surfactants <sup>2</sup> (MBAS, mg/l)	No data	No data	No data²	No data <sup>2</sup>	N/A	N/A
Copper, total recoverable (mg/l)	No data*	No data'	No data'	No data	N/A	See TPH above
Lead, total recoverable (mg/l)	No data <sup>2</sup>	No data'	No data <sup>2</sup>	No data'	N/A	See TPH above
Zinc, total recoverable (mg/l)	No data	No data	No data <sup>2</sup>	No data'	N/A	See TPH above
Table notes						·
future outfall				V Ab 6 11. Aa	<u></u>	
2. Future outfall will ha	ve land uses (runways	and taxiways) ide	oil and crease /FO	(a) when the current	nt concentrati	mit was renewed in 1998.
3. the total petroleum	data for the storm ev	ent(s) which results	ed in the maximum	values for the flow	weighted com	posite sample
1.	2.		3.	4.	<u> </u>	5.
Date of	of Duration Total rainfall beginning of storm measurements		m measured	Total flow from rain event (gallons or specify units)		

N/A but data are expected to be similar to those for outfall 005 (SDS3).

7 0		the maked of fi	ow measurement	or actimate
7 Drovide	a description of	the method of t	iow measurement	orestimat

7. Provide a description of the method of flow measurement or estimate

N/A but method used to measure flow from outfall 005 (SDS3) will be used.

Minimum

PH (std units)

Maximum

Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F) Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details Maximum Values Average Values Number (include units) **Pollutant** (include units) Of Grab Sample Grab Sample Storm And **CAS Number** Taken During Flow-weighted Taken During Flow-weighted **Events** (if available) First 30 Composite First 30 Composite Sampled **Minutes Minutes** Sources of Pollutants No data No data No data No data N/A Oil & Grease TPH1 service, construction (mg/l. NWTPH-Dx) and maintenance vehicle traffic, aircraft taxiing and landing Biological Oxygen No data No data No data No data N/A ground surface deicing Demand (mg/l, BOD5) N/A Chemical Oxygen No data No data No data No data N/A Demand (COD) Total Suspended No data No data No data' No data' N/A Runway/taxiway Solids (mg/l, TSS) aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction No data No data No data Total Organic No data N/A N/A Nitrogen Total No data No data No data No data' NA N/A **Phosphorus** 

Minimum Table notes: 1, total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall, See the instructions for additional details and requirements.

Maximum

N/A

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	No data'	No data'	No data'	No data'	No data'	No data'

Table notes: 1. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

Continued fro	om the Front		· ·				S
Part C -	List each po	Illutant shown in T	ables 2F-2, 2F-3, a nents. Complete on	nd 2F-4 that you kn e table for each ou	now or have reasor tfall.	to believe is	present. See the instructions for
OUTFALL		Maximu	m Values le units)	Average	Average Values (include units)		
CAS N	nd lumber pilable)	Grab Sample Taken During First 30	Flow-weighted Composite	Grab Sample Taken During First 30	Flow-weighted Composite	Storm Events Sampled	
		Minutes No data	No data	Minutes No data <sup>2</sup>	No data	N/A	Sources of Pollutants small wild animals and
Fecal colifor (MPN/100ml		NO Gata	NO Gala	770 0515	110 3312	14/2	birds
Fluoride' (m	g/l)	No data	No data'	No data'	No data'	N/A	domestic water
FOG-TPH ( NWTPH-Dx)	mg/l.	No data <sup>2</sup>	No data	No data	No data²	N/A	service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Surfactants <sup>2</sup> mg/l)	(MBAS,	No data <sup>2</sup>	No data'	No data'	No data'	N/A	N/A
Copper total		No data	No data	No data	No data	N/A	See TPH above
Lead, total r		No data	No data <sup>2</sup>	No data'	No data	N/A	See TPH above
(mg/l) Zinc, total re (mg/l)	ecoverable'	No data'	No data <sup>2</sup>	No data <sup>2</sup>	No data <sup>2</sup>	N/A	See TPH above
Table notes				<u> </u>		<del> </del>	
		<u></u>	<u> </u>	<u> </u>			1
1 future out	Mail will base i	and uses (runway	s and taxiways) ide	ntical to 005 (SDS:	3), therefore poliuta	int concentrat	ions will be similar.
2 the total	notrolous bud	rocarbone (TPH)	narameter replaced	oil and grease (FC	(a) when the curre	nt NPDES pe	mil was lenewed in 1330.
Part D	- Provide da	ta for the storm ev	ent(s) which resulte	ed in the maximum	values for the flow	weighted con	nposite sampie.
1.		2.		3.	<b>4</b> .		5.
Date of Storm Event	Date of Duration Storm of Storm Event		during s	ıl rainfall storm event inches)	Number of ho beginning of sto and end of measurable	orm measured previous	Total flow from rain event (gallons or specify units)

N/A but data are expected to be similar to those for outfall 005 (SDS3).

7 Provide a description of the method of flow measurement or estimate.

N/A but method used to measure flow from outfall 005 (SDS3) will be used.

VII. Discharge Information (Continued from page 3 of Form 2F) You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See Part A instructions for additional details Maximum Values Average Values Number **Pollutant** (include units) (include units) Of Grab Sample Grab Sample Storm And CAS Number Taken During Flow-weighted Taken During Flow-weighted **Events** First 30 Sampled (if available) First 30 Composite Composite Minutes Sources of Pollutants Minutes No data No data No data No data N/A service, construction Oil & Grease TPH' (mg/l, NWTPH-Dx) and maintenance vehicle traffic, aircraft taxiing and landing Biological Oxygen No data No data No data No data N/A ground surface deicing Demand (mg/l, BOD5) Chemical Oxygen No data No data No data No data N/A N/A Demand (COD) No data No data No data' N/A Total Suspended No data Runway/taxiway Solids (mg/l, TSS) aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction No data N/A No data No data' Total Organic No data N/A Nitrogen No data NA Total No data No data No data N/A **Phosphorus** Minimum NA PH (std units) Minimum Maximum Maximum No Data<sup>2</sup> Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

1998. 2. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of		
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants	
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	No data'	No data'	No data'	No data	No data	No data'	

Table notes: 1Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

Continued from the Front Part C - List each pollutant shown in Tables 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall Average Values Number Maximum Values **OUTFALL SDW2** (include units) Of (include units) **Pollutant** Storm Grab Sample Grab Sample And **Events** Flow-weighted Taken During Taken During Flow-weighted **CAS Number** Sampled Composite First 30 Composite First 30 (if available) Sources of Pollutants Minutes Minutes small wild animals and No data' N/A No data No data' No data Fecal coliform birds (MPN/100ml) No data domestic water No data N/A No data No data Fluoride<sup>2</sup> (mg/l) No data No data N/A service, construction No data' FOG TPH (mg/l, No data and maintenance vehicle NWTPH-Dx) traffic, aircraft taxiing and landing N/A No data No data' N/A No data Surfactants' (MBAS, No data mg/l) See TPH above No data' No data' N/A No data No data Copper, total recoverable<sup>1</sup> (mg/l) See TPH above No data N/A No data' No data' No data' Lead, total recoverable (mg/l) No data' See TPH above No data N/A Zinc, total recoverable No data No data (mg/l) Table notes 1. future outfall 2. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar. 3. the total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. Part D - Provide data for the storm event(s) which resulted in the maximum values for the flow weighted composite sample Number of hours between Total flow from beginning of storm measured Duration Total rainfall Date of rain event during storm event of Storm Event Storm and end of previous (gallons or specify units) (in inches) (in minutes) measurable rain event **Event** 

N/A but data are expected to be similar to those for outfall 005 (SDS3).

7. Provide a description of the method of flow measurement or estimate

N/A but method used to measure flow from outfall 005 (SDS3) will be used.

WAD98098016 (Continued from page 3 of Form 2F) VII. Discharge Information Part A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details. Number Maximum Values Average Values Of (include units) (include units) **Pollutant** Storm Grab Sample Grab Sample And Taken During Flow-weighted Events Flow-weighted **CAS Number** Taken During First 30 Sampled Composite First 30 Composite (if available) Sources of Poliutants Minutes **Minutes** No data N/A service, construction No data No data No data' Oil & Grease TPH and maintenance vehicle (mg/l, NWTPH-Dx) traffic, aircraft taxiing and landing No data N/A ground surface deicing No data No data Biological Oxygen No data Demand (mg/l, BOD5) N/A N/A No data No data No data No data Chemical Oxygen Demand (COD) N/A Runway/taxiway No data No data' No data No data Total Suspended aggregate wear, ground Solids (mg/l, TSS) surface deicing abrasives (sand), atmospheric deposition, construction N/A N/A No data No data No data No data Total Organic Nitrogen N/A N/A No data No data No data No data Total **Phosphorus** NA Maximum Minimum Minimum Maximum PH (std units) Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. Future discharge will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar. 3. This future discharge will drain to the NW Ponds and will be represented at the Northwest Ponds outlet which consolidates multiple discharges Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements. Number Average Values Maximum Values (include units) Of **Poliutant** (include units) Storm Grab Sample Grab Sample And Taken During Flow-weighted **Events** Flow-weighted Taken During **CAS Number** 

Sampled Composite First 30 First 30 Composite (if available) Sources of Pollutants **Minutes** Minutes No data No data No data No data No data All of the pollutants No data with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C

Table notes: 1. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

OUTFALL SDV Pollutant		letails and requirements. Complete one Maximum Values (include units)		Average Values (include units)		
And CAS Numbe (if available	Grab Sample Taken During	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
ecal coliform (MPN/100ml)	No data	No data'	No data	No data	N/A	small wild animals and birds
Fluoride <sup>2</sup> (mg/l)	No data	No data	No data'	No data <sup>2</sup>	N/A	domestic water
FOG-*TPH (mg/l, NWTPH-Dx)	No data	No data	No data	No data	N/A	service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Surfactants* (MBA	S. No data	No data <sup>z</sup>	No data <sup>2</sup>	No data	N/A	N/A
Copper, total recoverable (mg/	No data <sup>2</sup>	No data*	No data	No data	N/A	See TPH above
Lead, total recove (mg/l)		No data	No data'	No data <sup>2</sup>	N/A	See TPH above
Zinc, total recover (mg/l)	able No data	No data <sup>z</sup>	No data	No data	N/A	See TPH above
Table notes						
3 the total netrol	a will have land uses (n)	parameter replaced	oil and grease (FC	(G) when the curre	nt NPUES pen	posite sample.
1.	2.		3.	4.		5.
Date of Storm Event	Duration of Storm Event (in minutes)	during s	il rainfall storm event inches)	Number of hor beginning of storand end of measurable	rm measured previous	Total flow from rain event (gallons or specify units)

7. Provide a description of the method of flow measurement or estimate.

N/A but method used to measure flow from outfall 005 (SDS3) will be used.

#### **OUTFALL SASA POND**

EPA ID Number (copy from Item I of Form 1)

WAD98098016

Form Approved. OMB No. 2040-0086 Approval expires 5-31-92

VII. Discharge Information (Continued from page 3 of Form 2F)

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
Oil & Grease TPH¹ (mg/l, NWTPH-Dx)	No data'	No Data	No data <sup>r</sup>	No data	N/A	service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Biological Oxygen Demand (mg/l, BOD5)	No data	No data*	No data <sup>2</sup>	No data'	N/A	ground surface deicing
Chemical Oxygen Demand (COD)	No data'	No data	No data'	No data'	N/A	N/A
Total Suspended Solids (mg/l, TSS)	No data <sup>2</sup>	Ño data	No data'	No data	N/A	Runway/taxiway aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction
Total Organic Nitrogen	No data	No data	No data²	No data	NA	N/A
Total Phosphorus	No data <sup>z</sup>	No data*	No data'	No data	NA	N/A
PH (std units)	Minimum	Maximum	Minimum	Maximum	N/A	

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. Future outfall will have land uses (roadways, parking lots and rooftops) similar to 002 (SDE4), therefore pollutant concentrations will be similar.

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Poliutant	Maximum Values (include units)		Average Values (include units)		Number Of		
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants	
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	No data	No data'	No data'	No data	No data'	No data'	

Table notes: 1. Future outfall will have land uses (runways and taxiways) identical to 002 (SDE4), therefore pollutant concentrations will be similar.

OUTFALL SAS	A Pond	letails and requirements. Complete one Maximum Values (include units)		Average	Average Values (include units)		
And CAS Num (if availal		Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
ecal coliform MPN/100ml)		No data	No data*	No data	No data	N/A	small wild animals and birds
luoride' (mg/l)		No data	No data'	No data	No data	N/A	domestic water
OG- <sup>3</sup> TPH (mg IWTPH-Dx)	/I.	No data <sup>2</sup>	No data <sup>2</sup>	No data <sup>2</sup>	No data <sup>*</sup>	N/A	service, construction and maintenance vehicl traffic, aircraft taxiing and landing
Surfactants <sup>2</sup> (M	BAS,	No data	No data	No data	No data'	N/A	N/A
Copper, total ecoverable <sup>1</sup> (m	ng/l)	No data'	No data'	No data	No data'	N/A	See TPH above
.ead, total reco	verable'	No data	No data	No data	No data	N/A	See TPH above
Zinc, total reco mg/l)	verable '	No data²	No data <sup>2</sup>	No data <sup>2</sup>	No data <sup>2</sup>	N/A	See TPH above
Table notes							
A A a dall					<del></del>	<del></del>	
F. duran audda	مبدوط النبيدا	land uses (roadwa	ys, parking lots and	roof tops) similar	to 002 (SDE4), the	efore poliutar	nt concentrations will be similar.
the total net	roleum hyr	rocarbons (TPH) r	arameter replaced	oil and grease (FC	(G) when the curre	nt NPUES pe	ma was renewed in 1990.
	Provide da		ent(s) which result		values for the flow	weighted cor	nposite sample.
Date of Storm	Storm of Storm Event		during s	3. I rainfall storm event inches)	Number of hours between beginning of storm measured and end of previous measurable rain event		Total flow from
	<u> </u>		similar to those	e for outfall 00			

7. Provide a description of the method of flow measurement or estimate.

N/A but method used to measure flow from outfall 002 (SDE4) will be used.

VII. Discharge Information (Continued from page 3 of Form 2F)

Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
<del>Oil &amp; Grease</del> TPH <sup>1</sup> (mg/l, NWTPH-Dx)	No data"	N/A	No data	No data	N/A	service, construction and maintenance vehicle traffic, aircraft taxiing and landing
Biological Oxygen Demand (mg/l, BOD5)	No data'	No data	No data*	No data	N/A	ground surface deicing
Chemical Oxygen Demand (COD)	No data"	No data	No data"	No data	NA	N/A
Total Suspended Solids (mg/l, TSS)	No data	No data	No data	No data	N/A	Runway/taxiway aggregate wear, ground surface deicing abrasives (sand), atmospheric deposition, construction
Total Organic Nitrogen	No data*	No data"	No data	No data	NA	N/A
Total Phosphorus	No data*	No data*	No data	No data	NA	N/A
PH (std units)	Minimum	Maximum	Minimum	Maximum	N/A	

Table notes: 1. total petroleum hydrocarbons (TPH) parameter replaced oil and grease (FOG) when the current NPDES permit was renewed in 1998. 2. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES

Part B - List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

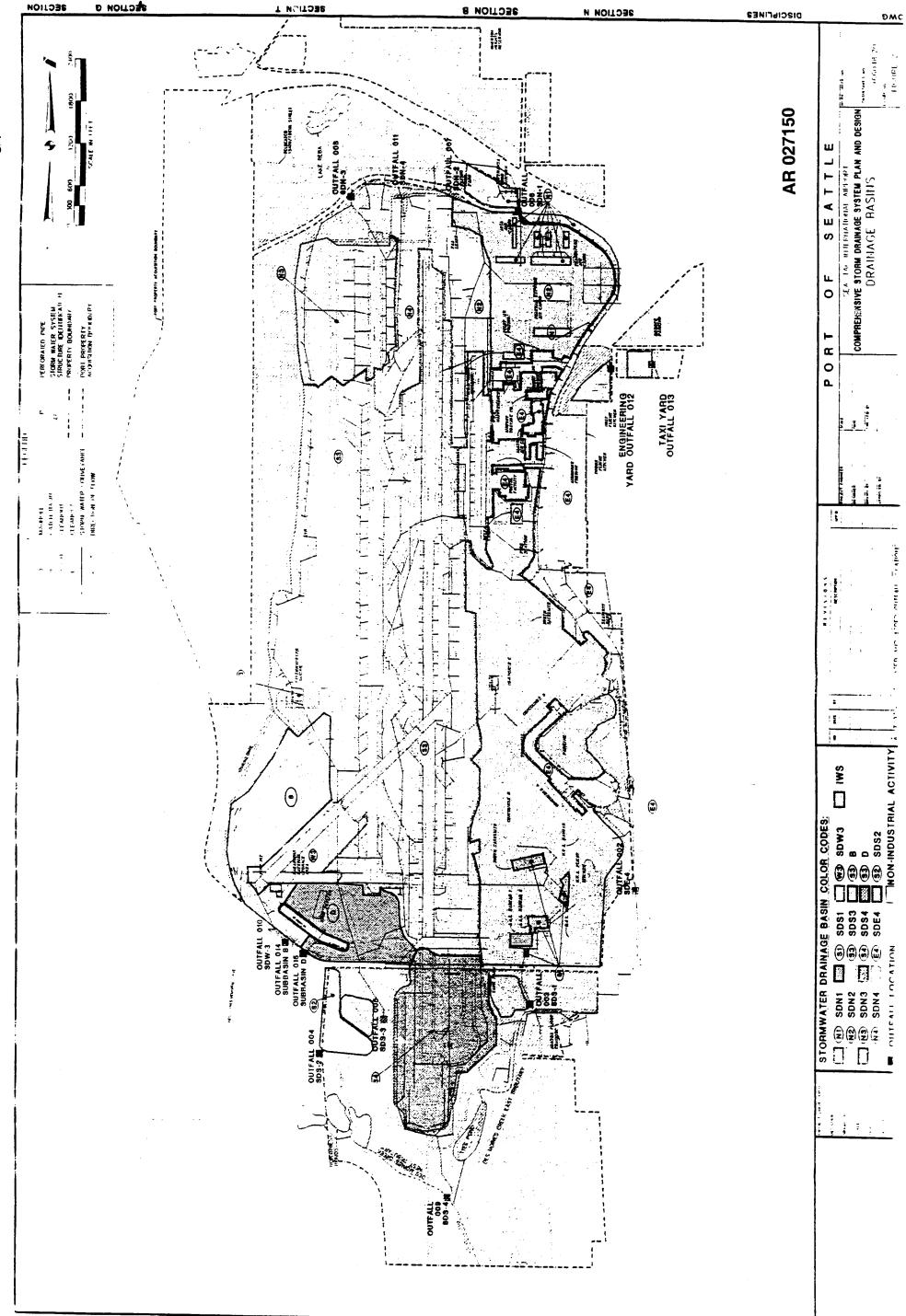
Pollutant	Maximum Values (include units)		Average Values (include units)		Number Of	
And CAS Number (if available)	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants
All of the pollutants with effluent limitations for the Industrial Waste Treatment Plant's discharge (outfall 001) in the current NPDES permit for Sea-Tac International Airport are listed in Part VII. A above. See Form 2C	No data'	No data	No data	No data	No data	No data'

Table notes: 1. Future outfall will have land uses (runways and taxiways) identical to 005 (SDS3), therefore pollutant concentrations will be similar.

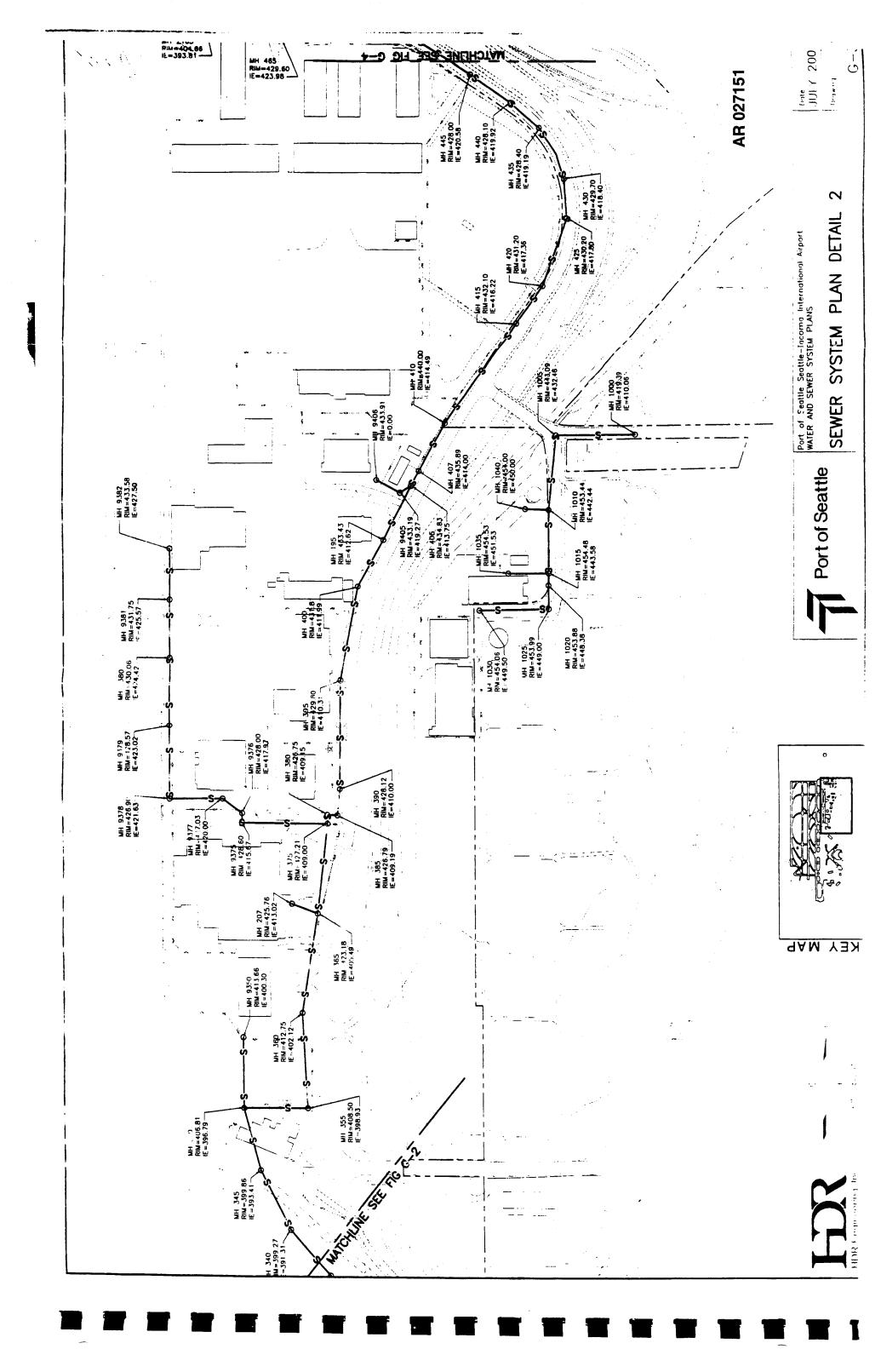
OUTFALL SDN3A' Pollutant And CAS Number (if available)	(includ	details and requirements. Complete one  Maximum Values.  (include units)		Average Values (include units)			
	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Grab Sample Taken During First 30 Minutes	Flow-weighted Composite	Storm Events Sampled	Sources of Pollutants	
Fecal coliform (MPN/100ml)	No data <sup>2</sup>	No data <sup>-</sup>	No data'	No data'	N/A	small wild animals and birds	
Fluoride <sup>2</sup> (mg/l)	No data'	No data	No data'	No data'	N/A	domestic water	
FOG-3 TPH (mg/l. NWTPH-Dx)	No data <sup>2</sup>	No data <sup>2</sup>	No data	No data <sup>2</sup>	N/A	service, construction and maintenance vehicle traffic, aircraft taxiing and landing	
Surfactants² (MBAS. mg/l)	No data	No data'	No data <sup>2</sup>	No data'	N/A	N/A	
Copper, total recoverable <sup>1</sup> (mg/l)	No data'	No data'	No data <sup>2</sup>	No data	N/A	See TPH above	
Lead, total recoverable (mg/l)	No data	No data	No data <sup>2</sup>	No data <sup>2</sup>	N/A	See TPH above	
Zinc, total recoverable (mg/l)	No data'	No data'	No data'	No data'	N/A	See TPH above	
Table notes							
future outfall     Future outfall will have			ation to 005 (CDC3	) therefore pollutar	nt concentrati	one will be similar	
3. the total petroleum hy	drocarbons (TPH) plata for the storm even	arameter replaced	oil and grease (FO	<ul><li>G) when the current</li></ul>	it NPDES per	mit was renewed in 1998.	
1.	2.		3.	4. Number of hou	rs between	5. Total flow from	
Date of Duration Storm of Storm Event Event (in minutes)		during s	Total rainfall during storm event (in inches)		m measured previous rain event	rain event (gallons or specify units)	

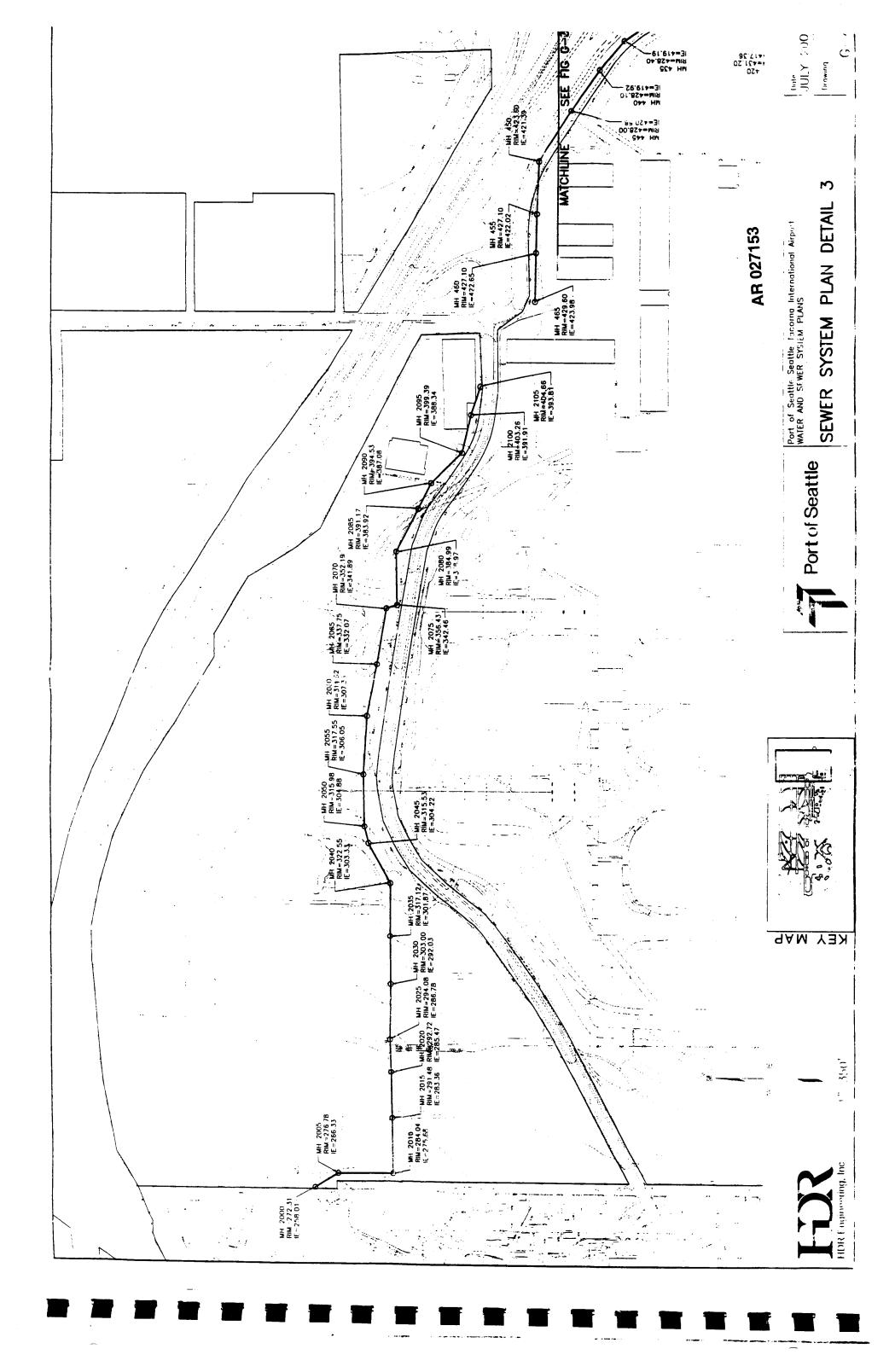
7. Provide a description of the method of flow measurement or estimate

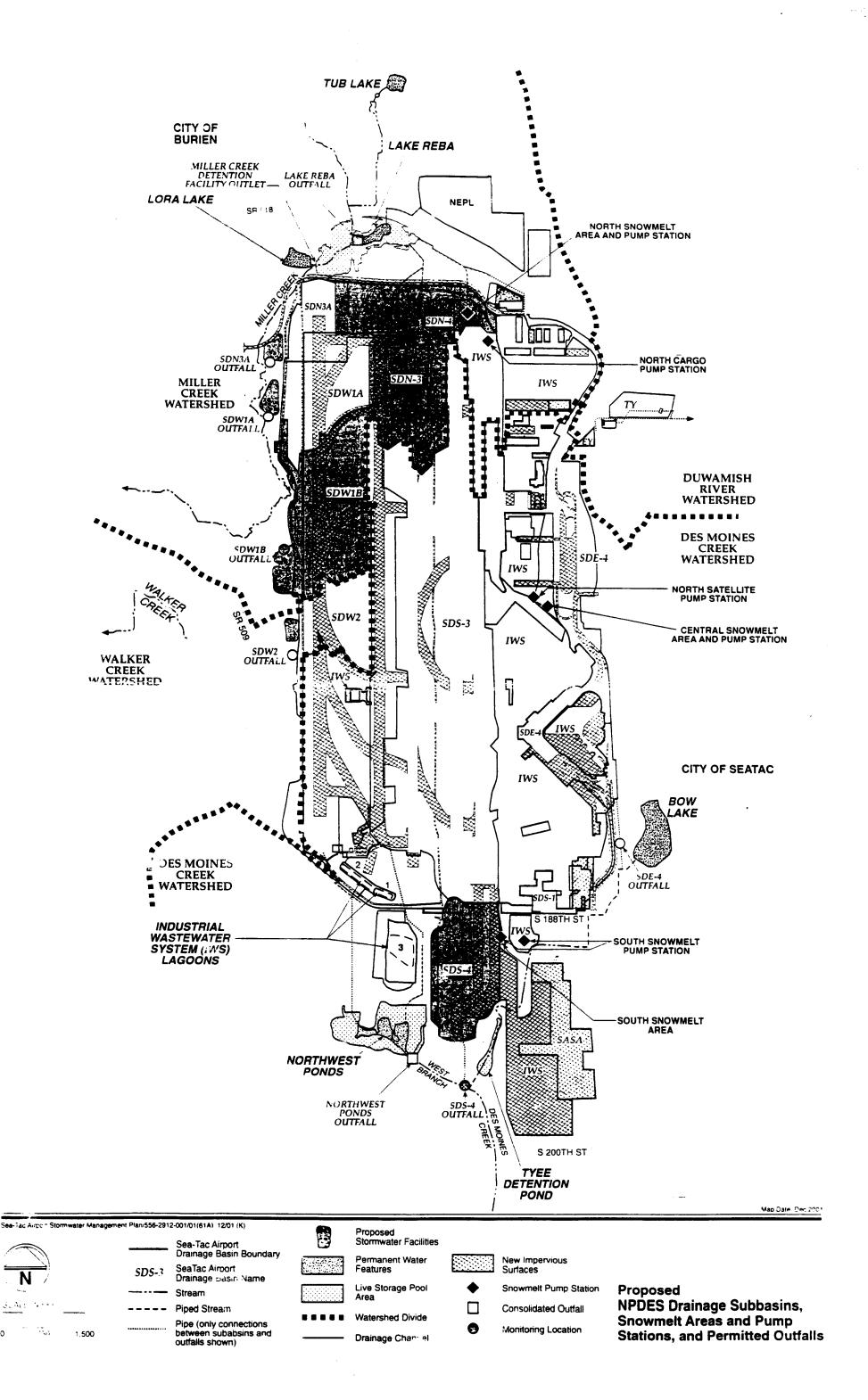
N/A but method used to measure flow from outfall 005 (SDS3) will be used.

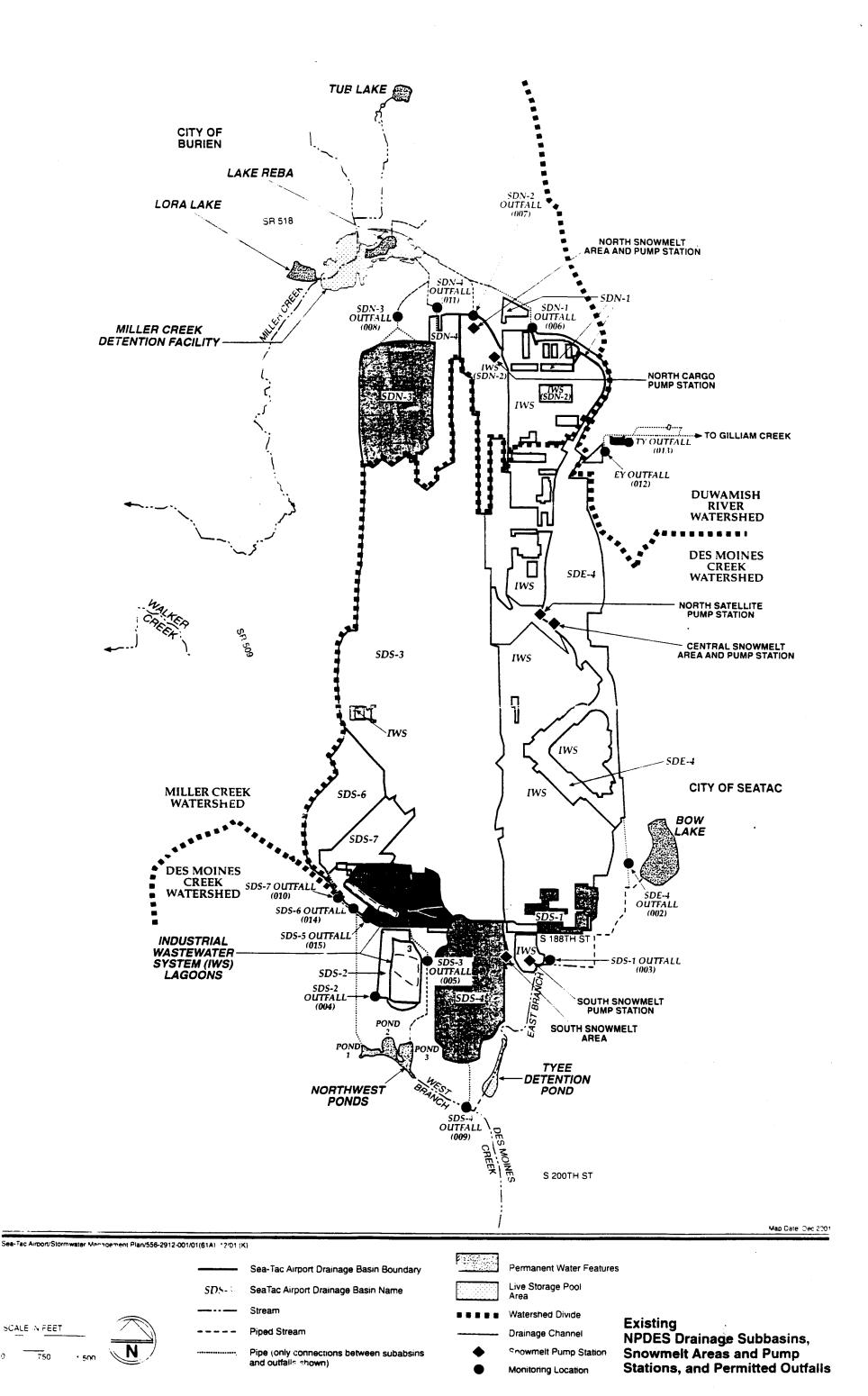


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Sound Analytical Services, Inc.

ANALYTICAL & ENVIRONMENTAL CHEMISTS

4813 Pacific Hwy East Tacoma, WA 98424 (253) 922-2310 FAX (253) 922-5047

e-mail: info@suslab.com



#### TRANSMITTAL MEMORANDUM

DATE: December 13, 2001

TO: Al Audette Port of Seattle - Maintenance Dept. P.O. Box 68747 Seattle, WA 98168

PROJECT: DMR

REPORT NUMBER: 95423

Enclosed are the revised test results for one sample received at Sound Analytical Services on December 27, 2000. Please replace the pages from the originally submitted report with the enclosed pages.

The originally submitted results for 1,3,5-trimethylbenzene and 1,2,4-trimethylbenzene were reported incorrectly. Due to an undetected retention time shift that occurred during the initial calibration associated with your sample analyses, 1,2,4-trimethylbenzene was reported as 1,3,5-trimethylbenzene and 1,3,5trimethylbenzene was reported as isopropylbenzene Unfortunately, this error was not discovered until October 2001. All affected data are in the process of being reviewed, and revised results are being submitted as they become available. Results for other reported analytes are not affected.

Please accept our sincerest apologies for this oversight. At STL Seattle, high quality data and impeccable customer service are our top priorities. I can assure you that this was an isolated incident, and in order to ensure that this type of error does not happen again, we have implemented new data review procedures.

I apologize for any inconvenience this reporting error may have caused. Should there be any questions regarding this report, please contact me at (253) 922-2310.

Sincerely,

Terri Howard Project Manager

Client Name

Port of Seattle - Maintenance Dept.

Client ID:

DEC-300-EFF 95023-01

Date Received: Date Prepared: 12/27/00

Date Analyzed:

12/28/00 12/28/00

1

% Solids

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Dilution Factor

#### Volatile Organics by USEPA Method \$260

Surrogate Dibromofluoromethane Fluorobenzene Toluene-D8 Ethylbenzene-d10 Bromofluorobenzene	% Recovery 104 103 101 91.4 92	Flags	84 82 95 90	_imits ligh 115 108 106 111	
Analyte Dichlorodifluoromethane Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluoromethane 1,1-Dichloroethene Acrolein Methylene chloride trans-1,2-Dichloroethene Acrylonitrile 1,1-Dichloroethane 2,2-Dichloropropane cis-1,2-Dichloroethane Bromochloromethane Chloroform 1,1,1-Trichloroethane Carbon Tetrachleride 1,1-Dichloropropane Benzene 1,2-Dichloroethane Trichloroethane Trichloroethane 1,2-Dichloropropane Dibromomethane	ND - ND - ND - ND - ND - ND - 25.8 - 0.192 -	PGL 0.4 0.4 0.4 0.4 0.4 0.4 0.4 0.4		MDL 0227 0312 0193 0503 .122 0225 0824 .052 0492 0518 .107 0358 .075 0553 0444 0516 0759 0527 0499 0319 0319 0319 0597 0498 0.024 .0324	Flags J
Bromodichloromethane cis-1,3-Dichlorogropere		0.4	(	0373	

Volatile Organics by USEPA Method 8260 data for 95023-01 continued...

	Result		
Analyte	(ug/L)	PQL	MDL
Toluene	23.8	0.4	0 0357
trans-1,3-Dichlorepropene	ND -	0.4	0 0307
1,1,2-Trichioroethane	ND <	0.4	0 0479
Tetrachioroethen:	ND -	0.4	0 0549
1,3-Dichloropropene	ND ~	0.4	0 0276
Dibromochloromethan	ND^	0.4	0 0479
1,2-Dibromoethane	ND-	0.4	0.0743
Chlorobenzene	0.0489	0.4	0 0475
Ethylbenzene	7.83	0.4	0,0318
1.1,1,2-Tetrachio oethene	ND -	0.4 —	0,0401
m,p-Xylene	34.4—	0.8 ~	Q.0 <b>8</b> 7
o-Xylene	18.4	0.4	0,0432
Styrene	ND /	0.4	0,0372
Bromoform	ND	0.4	0,0455
isopropyibenzene	0.814	0.4	0,0473
Bromobenzene	ND-	0.4 ~	0,0449
n-Propyibenzene	2.34	0.4	0.0668
1,1,2,2-Tetrachio oethane	ND —	0.4	0.0705
1,2,3-Trichloropropane	ND —	0.4	0.0787
2-Chiorotoluene	ND =	0.4	0.0544
1,3,5-Trimethylbenzen	8.66	0.4	0.0473
4-Chiorotoluene	ND-	0.4	0.0635
t-Butylbenzene	ND _	0.4 _	0.0766
1,2,4-Trimethylbenzen	27.5	0.4	0.0523
sec-Butylbenzene	0.667 —	0.4 —	0.0632
1,3-Dichlorobenzene	ND-	0.4—	0.0569
4-Isopropyltoluene	0.938 —	0.4	0.0478
1,4-Dichlorobenzene	ND -	0.4	0.0546
n-Butylbenzene	ND /	0.4	0 053
1,2-Dichlorobenzene	ND _	0.4 —	0.0438
1,2-Dibromo-3-chioropiopane	ND /	0.4	0 129
1,2,4-Trichiorobenzene	ND /	0.4	0.0852
Hexachiorobutadiene	ND —	0.4	0 115
Naphthalene	12 =	0.4	0.0914
1,2,3-Trichlorobenzene	ND	0.4	0.0962
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Client Name
Client ID:
Lab ID:
Date Received:
Date Prepared:
Date Analyzed:
% Solids
Dilution Facor

Port of Seattle - Maintenance Dept.
DEC-300-EFF
95023-01
12/27/00
12/28/00
12/28/00
12/28/00

#### Semivolatile Organics by USEPA Method 8270

i			Xecov	ery Limits
Surrogate	% Recovery	Flags	Low	High
Nitrobenzene - d5	<b>96.1</b>		48	1\$0
2 - Fluorobiphenyl	. <b>93.6</b>		59	126
p - Terphenyl - d14	106		48	1\$7
Phenol - d5	29.6		11	<b>e</b>  7
2 - Fluorophenol	45.3		17	113
2,4,6 - Tribromophenol	99.1		54	1\$1

	R	esult			
Analyte	(0	ig/L)	PQL	MPL	Flags
Phenol	_	5.38	0.952	0.305	
bis(2-Chloroethyl) ther	ND /		0.952	0.181	
2-Chlorophenol	ND		0.952	0.162	
1,3-Dichlorobenzese	ND -		0.952	0.162	
1.4-Dichlorobenzeee	ND ~	_	0.952	0.143	
Benzyi Alcohol		1.17	0.952	0.305	
1,2-Dichlorobenzeee	ND T	_	0.952 🦳	0.152	
2-Methylphenol		0.581	0.952	0.229	J
bis(2-Chloroisopropyl)ether	ND T		0.952	0.2	
3- & 4-Methylphenel		3.46	0.952	0.219	
N-nitroso-di-n-propylamine	ND —		0.952	0.2	
Hexachioroethane	ND/		0.952	0.381	
Nitrobenzene	ND		0.952 ~	0.429	
Isophorone	ND -		0.952	0.171	
2-Nitrophenol	ND -		0.952 —	0.21	
2.4-Dimethylphend	ND -		0.952	0.143	
Benzoic Acid	ND -		4.76	0.19	
bis(2-Chioroethoxy) methar			0.952	0.171	
2.4-Dichloropheno	ND/		0.952	0.143	
1,2,4-Trichiorobenzene	ND -		0.952-	0.152	
		10.8 -	0.0952	0.0208	
Naphthalene	ND_	,	0.952	0.371	
4-Chioroaniline	ND -		0.952	0.276	
Hexachlorobutadiene	ND		0.952	0.514	
4-Chloro-3-methylphend	NU	16.4	0.0952	0.0145	
2-Methylnaphthaiche		70.7	0.476 —	0.248	
Hexachlorocyclopentadian	e ND		V.7/V	0.240	

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Semivolatile Organics by USEPA Method 8270 data for 95023-01 continued...

		Result		,	
Amahan		(ug/L)	PQL	MPL	
Analyte 2,4,5-Trichlorophenol	· ND		0.952	0.114	
2,4,5-Trichlorophenol	ND/		0.952 -	D.105	
2-Chloronaphthalene	ND /		0.0952	0.013	
	ND/		0.952 🔨	0.171	
2-Nitroaniline		7.09	0.952	0.152	
Dimethylphthalate	ND-		0.0952	<b>d</b> ,0145	
Acenaphthylene 2,6-Dinitrotoluene	ND -		0.952	0.19	
3-Nitroaniline	NB	•	0.952	0.314	
	ND-		0.0952	0.015	
Acenaphthene	ND /		2.38 /	p.286	
2,4-Dinkrophenol	ND'		2.38	0.276	
4-Nitrophenol		0.448	0.952	p.133	•
Dibenzofuran		0.238	0.952	<b>D.124</b>	•
2,4-Dinitrotoluene		0.762	2.38	0.552	•
Diethylphthalate	n ND /		0.952	0.143	
4-Chlorophenylphenylethe	, , , ,	0.752	0.0952	p.013	
Fluorene	ND~		0.952 /	D. <b>29</b> 5	
4-Nitroaniline			2.38 —	0.21	
4,6-Dinitro-2-methylpheric	ND/		0.952 /	0,0952	
N-Nitrosodiphenylamine			0.952	<b>p.114</b>	
4-Bromophenylphenyleth	ND /		0.952 ~	0.19	
Hexachlorobenzen	ND		0.952	<b>D.162</b>	
Pentachlorophenoi	• • • • • • • • • • • • • • • • • • • •	0.505	0.0952	0.0212	
Phenanthrene	ND -		0.0952 ~	0,0145	
Anthracene	ND/		4.76 /	2.2	
Di-n-butylphthalate	ND-		0.0952 /	<b>0</b> ,0179	
Fluoranthene	ND /		0.0952	<b>D.013</b>	
Pyrene	ND -		4.76 ~	1.78	
Butylbenzylphthalale	ND /		0.952	0.343	
3,3'-Dichlorobenzione	ND/		0.0952 -	0,0417	
Benzo(a)anthracent	ND ^		0.0952 7	0,0234	
Chrysene		0.933 /	0.952 ~	p.619	
bis(2-Ethylhexyl)ph hala	ND/		0.952	0.324	
Di-n-octylphthalate	ND		0.19	0,0362	
Benzofluoranthenes	ND_		0.0952	0,0276	
Benzo(b)fluoranthene	ND		0.0952	<b>0,036</b> 5	
Benzo(k)fluoranthone	ND/		0.0952 ~	0,0447	
Benzo(a)pyrene	ND 7		0.0952	0.029	
Indeno(1.2,3-cd)pyrene	ND /		0.0952 ~	0,0256	
Dibenz(a,h)anthracene	ND		0.0952	0,0326	
Benzo(g,h,i)perylene	ND /	<del>.</del>	2.38	D.314	
N-nitrosodimethyla nine	ND -	•	2.38	0.229	
Benzidine	ND/		0.952	0.267	
1,2-Diphenylhydrazine	NO'				
1 1				į	

Lab ID:

Method Blank - HP0033

Date Received: Date Prepared:

12/28/00 12/28/00

Date Analyzed:

% Solida
Dilution Factor

Volatile Organics by USEPA Method 5030/8260B Modified

	•		Recov	ery Limits
Surrogate Dibromofluorome hane Fluorobenzene Toluene-D8 Ethylbenzene-d10 Bromofluorobenzene	% Recovery 105 105 98.7 90.7 91.8	Flags	Low 84 82 95 90 81	High 115 108 106 111 113

Analyte Dichlorodifluorom Chloromethane Vinyl chloride Bromomethane Chloroethane Trichlorofluorom 1,1-Dichloroethe Acrolein Methylene chloric trans-1,2-Dichloroetha 2,2-Dichloroprop cis-1,2-Dichloroetha 2,2-Dichlorom 1,1,1-Trichloroet Carbon Tetrachl 1,1-Dichloroprop Benzene 1,2-Dichloroetha Trichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroprop Benzene 1,2-Dichloroethane 1,2-Dichloroprop Dibromomethan Bromodichlorom Cis-1,3-Dichloroethane Cis-1,3-Dichlorom Cis-1,3-Dichlorom Chloromomethan	thane thane thane thane ende thane			0.4	1DL 0227 0312 0193 0503 122 0225 0824 .052 0518 .107 0358 .075 0553 0444 0516 0759 0319 0319 0319 0597 0498 0.024 0.0324	, 
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Volatile Organics by USEPA Method 5030/8250B Modified data for HP0033 continued...

	Result		1
	(ug/L)	PQL	MDL
Analyte	ND /	0.4	0.0357
Toluene	ND -	0.4	0.0307
trans-1,3-Dichloropropene	ND /	0.4	0.0479
1,1,2-Trichloroethane	ND /	0.4	0.0549
Tetrachioroethene	ND /	0.4 —	0.0276
1,3-Dichloropropane	ND /	0.4	0.0479
Dibromochloromehane	ND/	0.4	0.0743
1,2-Dibromoethane	ND -	0.4	0.0475
Chiorobenzene	ND/	0.4 —	0.0318
Ethylbenzene	ND -	0.4 —	0.0401
1,1,1,2-Tetrachlomethane	ND -	0.8	0 087
m.p-Xylene	ND /	0.4	0.0432
o-Xylene	ND /	0.4	0.0372
Styrene	ND -	0.4	0.0455
Bromoform	ND/	0.4 /	0.0473
Isopropyibenzene	ND -	0.4	0.0449
Bromobenzene	ND /	0.4 —	0.0668
n-Propylbenzene	ND/	0.4 ~	0.0705
1.1.2.2-Tetrachlologinane	ND /	0.4	0.0787
1,2,3-Trichloroprepane	ND -	0.4 /	0.0544
2-Chiorotoluene	ND -	0.4	0.0473
1,3.5-Trimethylbenzene	ND -	0.4	0.0635
4-Chlorotoluene	ND ~	0.4	0.0766
t-Butylbenzene	ND -	0.4 —	0.0523
1,2,4-Trimethylbenzene	ND-	0.4 -	0.0632
sec-Butylbenzen	ND/	0.4 —	0.0569
1,3-Dichlorobenzene	ND -	0.4 —	0.0478
4-isopropyltoluene	ND /	0.4—	0,0546
1.4-Dichlorobenzene	ND'	0.4	0.053
n-Butylbenzene	ND -	0.4	0 0436
1 2-Dichlorobenzene		0.4 —	0.129
1.2-Dibromo-3-chloroptor	NO -	0.4 ~	0 0852
1.2.4-Trichlorobenzen	ND -	0.4	0.115
Hexachiorobutad ene	ND /	0.4	0 0914
Naphthalene	ND -	0.4 —	0 0962
1,2,3-Trichlorobenzene	110		

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Lati ID:

Method Blank - SV3280

Date Received:
Date Prepared:
Date Analyzed:
% Solids

12/28/00 12/28/00

Dilution Factor

Semivolatile Organics by USEPA Method 8270

		•		Recover	- Limits	
			<b>-1</b>	Law	High	
Surrogate	••••	covery	Flags	48	150	
Nitrobenzene - d5	_	3.3		59	126	
2 - Fluorobiphenyl	•	7.1		48	137	
p - Terphenyl - d14	_	3.4		11	67	
Phenol - d5	_	2.9		17	113	
2 - Fluorophenol		55		54	151	
2,4,6 - Tribromophenol	1	115			7	
	•••	esult			MDL	Flags
Applies	(u	ig/L)	PQL		0.32	, leg-
Analyte Phenoi	ND		1		0.19	
bis(2-Chloroethyl) ther	ND		1		0.17	
2-Chlorophenol	ND		1		0.17	
1,3-Dichiorobenzene	ND		1		0.15	
1,4-Dichlorobenzene	ND				0.32	
Benzyl Alcohol	· ND		1		0.16	•
1,2-Dichlorobenzene	ND		4		0.24	
2-Methylphenol	ND				0.21	
bis(2-Chloroisopropyl)eth	BT ND				0.23	
3- & 4-Methylphenol	ND		1		0.21	
N-nitroso-di-n-propylamin	e ND		1		0.4	
Hexachioroethane	ND		,		0.45	
Nitrobenzene	ND				0.18	
Isophorone	ND		· ·		0.22	
2-Nitrophenol	ND		1		0.15	
2,4-Dimethylphenel	ND		5		0.2	
Benzoic Acid	ND		1		0,18	
bis(2-Chloroethoxy)meth	ane ND		•		0.15	
2,4-Dichlorophendi	ND		1		0.16	
1,2,4-Trichlorober zene	ND		0.1		0.0219	
Naphthalene	ND		0.1		0.39	
4-Chloroaniline	ND		. 1		0.29	
Hexachlorobutadiene	ND		•		0.54	
4-Chloro-3-methy pheno	l ND		0.1		0.0152	
2-Methylnaphthalene	ND		0.5		0.26	
Hexachlorocyclopentadi	ene ND		U.s	•		
Hexacilloiocyclo					ı	

Semivolatile Organics by USEPA Method 8270 data for SV3280 continued...

		Result	PQL		MD	_
Analyte	_	(ug/L)	PUL	1		0.12
2,4,6-Trichlorophenol	ND			1	į	0.11
2,4,5-Trichlorophenol	ND			0.1	0.	0136
2-Chloronaphthalen	ND			1		0.18
2-Nitroaniline	ND			i	i	0.16
Dirnethylphthalate	ND			0.1	o	0152
Acenaphthylene	ND			1	ļ	0.2
2,6-Dinitrotoluene	ND			1		0.33
3-Nitrosniline	ND			0.1	0	0157
Acenaphthene	ND			2.5		0.3
2,4-Dinitrophenol	ND			2.5		0.29
4-Nitrophenol	ND			1		0.14
Dibenzofuran	. ND			1		0.13
2,4-Dinitrotoluene	ND			2.5		0.58
Z,q-Dilitiotoidens	ND			1		0.15
Diethylphthalate 4-Chlorophenylphenyleth	er ND			0.1	0	0136
4-Chiprophenyipho				1		0.31
Fluorane	ND			2.5		0.22
4-Nitroaniline 4,6-Dinitro-2-methylphen	oi ND			1		0.1
N-Nitrosodiphenylamine	ND			1		0,12
4-Bromophenylphenylet	er ND			i		0.2
Hexachlorobenzene	, , , , , , ,			•		0.17
Pentachlorophenol	ND			0.1	(	.0222
Pentachiotophena	ND			0.1		.0152
Phenanthrene	ND			5		2.31
Anthracene	ND			0.1		0.0188
Di-n-butylphthalate	ND			0.1		0.0136
Fluoranthene	ND			5		1.87
Pyrene	ND			1		0.36
Butylbenzylphthalate	ND			0.1		0.0438
3,3'-Dichlorobenzitine	ND			0.1		0.0245
Benzo(a)anthracese	ND			1		0.65
Chrysene Chrysene	te ND			1		0.34
bis(2-Ethylhexyl)phthala	ND			0.2		0.038
Di-n-octylphthalate	ND			0.1		0.029
Benzofluoranthenes	NO			0.1		0.0383
Benzo(b)fluoranthene	ND	1		0.1		0.047
Benzo(k)fluoranthene	ND	)		0.1		0.0304
Benzo(a)pyrene	ND	•		0.1		0.0269
indeno(1,2,3-cd)pyrene	NC	)		0.1		0.0343
Dibenz(a,h)anthracene	NC	)		2.5		0.33
Benzo(g.h.i)perylene	NE			2.5 2.5		0.24
N-nitrosodimethy amin	N			2.5 1		0.28
Bonzidine				• .		
1,2-Diphenylhydrazine						

