

2013

# Salmon Creek Treatment Plant Annual Pretreatment Report

This submittal satisfies Section S6 F. of  
Waste Discharge Permit # WA-002363-9  
For Clark County, CRWWD, and  
the City of Battle Ground





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2013

## Salmon Creek Treatment Plant ANNUAL PRETREATMENT REPORT

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**FORM 1**  
**COVER SHEET**

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NPDES Permit Holder or Sewer Authority Name:  
Clark County Department of Public Works  
For  
Salmon Creek Wastewater Treatment Plant  
Clark Regional Wastewater District, and  
City of Battle Ground  
For their respective sewage collection systems  
The City of Ridgefield Wastewater Treatment Plant for Biosolids treated at  
Salmon Creek Wastewater Treatment Plant

Report Date: February 15, 2014

Period Covered by this Report:

From: January 1, 2013 To: December 31, 2013

**NAME OF WASTEWATER TREATMENT PLANT**

Salmon Creek Wastewater Treatment Plant

**NPDES PERMIT #**

WA – 002363-9

Person to contact concerning information in this report:

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

  
POTW Authorized Signature

2.11.14  
Date

Pretreatment Coordinator  
Title



## FORM 2

### SUMMARY

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#### INTRODUCTION

On May 16, 1995, Resolution #1031 establishing the Hazel Dell Sewer District's Pretreatment Program (now Clark Regional Wastewater District), was approved and signed by the Board of Commissioners (Board). Through Interagency agreements the District provides Industrial Pretreatment services to three separate Publicly Owned Treatment Works (POTW), as defined in 40 CFR 403.3 (q). The three POTW's are The Salmon Creek Wastewater Treatment Plant (SCTP) and Clark Regional Wastewater District (District) sanitary sewer system POTW, the SCWWTP and City of Battle Ground sanitary sewer system POTW, the City of Vancouver Westside Wastewater Treatment Plant and District sanitary sewer system POTW, the City of Ridgefield and SCWWTP POTW (further treatment of sludge at SCWWTP, generated by the City of Ridgefield POTW). The Washington Department of Ecology (Ecology) remains as the Control Authority for all POTW's excluding the Vancouver, and District POTW, for which the City of Vancouver is the Control Authority.

In late 2013 the Interlocal Agreement between the District and the City of Vancouver was updated. The updated agreement more clearly defines roles and responsibilities for the implementation of the Industrial Pretreatment Program in the portion of the District's sewer system which discharges to the Westside Plant. The District discharges approximately 1 million gallons of sewage per day to the Westside Plant. Presently there are no permitted Users in this portion of the District sanitary sewer system. The District agreed to develop a pretreatment program with all the elements needed to receive delegation should Ecology elect to delegate the program, or if the City of Vancouver required delegation for the District portion of the Vancouver, District POTW.

This Pretreatment Program Annual Report is submitted in accordance with Section S6 of NPDES Permit No. WA0023639 (Permit).

The Columbia River is the receiving water for all flow discharged from the POTW's excluding the City of Ridgefield which discharges to Lake River.

#### PLANT PERFORMANCE

The District conducted quarterly sampling at the SCWWTP for metals analysis. Sampling additionally included an annual sampling event held in conjunction with the third quarter sampling event. The annual sampling event included all required priority pollutants and selected conventional pollutants. The results of this sampling confirmed that the SCWWTP was adequately protected by its local limits. SCWWTP experienced no pass through, interference or discharge violations during 2013.

## PROGRAM UPDATE

The District diligently performed pretreatment activities as required by Permit during 2013. During 2013 there were four Significant Industrial Users (SIUs), discharging to the Salmon Creek Wastewater Treatment Plant, three located within the District and one located within the City of Battle Ground. Three SIU's discharged to SCWWTP through the District sanitary sewer system and Clark County conveyance system. All three SIU's located in the District are Categorical Industrial Users (CIUs), one 40 CFR 433 Metal Finishing and two 40 CFR 469 Electrical and Electronics Components. One SIU is located in City of Battle Ground and discharges to SCWWTP through the Battle Ground sanitary sewer system and the Clark County conveyance system. All four of the SIUs were sampled by the District twice and inspected once during 2013. Copies of all analytical results and inspection reports were forwarded to Ecology for review.

## PRIORITIES AND ACCOMPLISHMENTS FOR REPORTING YEAR

The District Pretreatment Coordinator, Don Young, retired in 2013. The District hired a new Pretreatment Coordinator, Andria Swann, in August 2013. Cedrick Redula, a District Engineering Technician, was recruited as a part-time inspector for the Fats, Oil and Grease (FOG) program. The District continued its implementation of the FOG program for control of FOG discharged to the sanitary sewer system. The District conducted 572 FOG inspections which is a significant increase to the total inspections performed in 2012. Additional staff resources allowed for more facility inspections to be completed. 90 re-inspections were required due to failure to meet District standards, a 15.7% re-inspection rate. During 2012 the program re-inspection rate was 16.5%. Pretreatment staff have been working closely with facilities that have non-compliant histories which has resulted in a lower re-inspection rate. The District FOG program included the City of Battle Ground's service area during 2013. The City of Ridgefield maintained their FOG program during 2013 following the District developing the program and training the inspectors. The City of Washougal approached the District during 2012 requesting assistance developing and implementing a FOG program. During 2013 the District trained local personnel with the City of Washougal to conduct FOG inspections.

	2012	2013
Total Inspections	308	<b>572</b>
Re-Inspections	51	<b>90</b>
Re-Inspection Rate (%)	16.5	<b>15.7</b>

Distribution of "Freeze the Grease" kits to District customers was continued as part of an educational program encouraging people to keep grease and non-dispersible materials out of their home laterals. District staff attended several community events to discuss residential discharge issues with the public and distribute information. A county-wide educational program "Smart Flush" implemented during 2011 was



continued during 2013. The Smart Flush program addresses the discharge of non-dispersible material on a county-wide basis.

The District modified its odor control program to include a stronger focus on corrosion control issues within the sanitary sewer system as well as continuing to address odor issues. Multiple corrosion and odor control measures are being explored by the District with the intent to determine which measures perform best under specific conditions. The District has invested in equipment including storage tanks, pumps, and Hydrogen Sulfide (H<sub>2</sub>S) detection monitors which are deployed to monitor concentrations of air phase H<sub>2</sub>S for control of chemical feed rates at select pump stations. The District purchased an OdaLog RTx, a compact portable wireless gas data-logger, which is capable of transmitting data twice per day, allowing for improved chemical feed rate control. Efforts to mitigate corrosion issues have been continued in 2013. A study to ascertain the optimal chemical dosing rate at three pump stations in the District service area have been targeted for case studies.

### **GOALS FOR 2014**

Listed below are the pretreatment program 2014 goals:

1. To continue to actively participate in the Local Interagency Networking Cooperative (LINC). LINC is a group of regulators in Southwest Washington that meet quarterly and discuss a wide range of environmental issues, exchanging ideas regarding avenues to approach the issues. The strength of LINC is the ability to assist other agencies with environmental issues in a manner that might not otherwise be available to the individual agency.
2. Update procedures and implement changes to the pretreatment program as needed.
3. Continue public outreach activities through the Freeze the Grease program and the Smart Flush program.
4. Maintain the effectiveness of the FOG program.
5. Integrate the Hot Spot program maintained by the District Operations Department with the FOG program.
6. Continue to work with partner agencies to advance Public Health and environmental programs in Clark County.
7. To keep abreast of changes of regulations and industrial processes.

### **FORM 3 SUMMARY**

The District, in accordance with the SCWWTP Permit, monitors the influent and effluent for priority pollutants quarterly. SCWWTP staff monitors the biosolids for priority pollutants quarterly. The monitoring results reported on Form 3 indicate that pollutants are present in non-inhibitory concentrations or are non-detectable in the influent and effluent.

Concentrations of metals in the influent continue to show a slight general decrease from previous years. All metals above detection levels were well below any known inhibition

levels. Removal rates for detected metals range from 19% for Molybdenum to 99% for Iron and Mercury. Chromium, Copper, Lead, Selenium and Silver all had removal rates great than 75%. Arsenic, Antimony, Nickel and Zinc all had removal rates between 30% and 65%.

The District samples for Volatile Organic, Semi-Volatile Organic, Pesticide, PCB's and selected conventional pollutants on an annual basis. The Volatile Organic analytical results of the influent sample were less than the detection levels for 31 of the 36 reported compounds. The analytical results of the effluent sample were less than the detection levels for all of the reported compounds. The percent removal across the process train of those compounds detected ranged from 17% to 92%. The compounds above detection levels were found to be well below any known inhibition level.

The Semi-Volatile Organic analytical results were less than the detection levels in the influent for 55 of the 57 analyzed compounds. The effluent analytical results were less than the detection levels for all of the analyzed compounds.

Organochlorine Pesticides and PCB analytical results were less than the detection levels for all 24 influent compounds and 24 effluent compounds.

Tentatively Identified Compounds (TIC) are reported in Form 3A. Once again in 2013, organic acids commonly found in fats, oil and grease were the predominate compounds in the influent found by Semi-Volatile analysis. Seven Unknown TIC were found in the effluent by Semi-Volatile analysis. Six TIC were observed in the influent by Volatile analysis. No TIC were observed in the effluent by Volatile analysis.

#### **FORM 4 SUMMARY**

The Maximum Allowable Headworks Loading (MAHL) of metals was found to be similar to previous years. Biosolids concentrations of all metals remain well below the standards for land application of Biosolids. SCWWTP has not experienced inhibition or pass-through from industrial sources.

#### **FORM 5 SUMMARY**

To identify industries that may require wastewater discharge permits, the District continued to review Commercial/Industrial Pretreatment Application surveys. Surveys are submitted to the District and the City of Battle Ground as part of the Development Review Process and are reviewed by staff. A total of 22 businesses were surveyed by the District. No new potential SIU's were found during 2013 in any of the jurisdictions.

#### **FORM 6 SUMMARY**

All four SIUs completed their required self-monitoring during the year. The District issued a Letter of Discharge to Waste Connections in 2012 for their wash area. The Waste Connections wash pad is used to clean garbage trucks and receptacles. The permit requires them to sample and analyze wastewater from the wash pad in order to characterize the wastewater. They are required to maintain a pH of 6.0 - 9.0 and report results of monitoring for pollutants found in Appendix D of 40 CFR 122 Tables II and III

annually and utilize approved Best Management Practices during washing events. Waste Connections completed all required self-monitoring during 2013.

#### **FORM 7 SUMMARY**

Three industries had violations of permit requirements during 2013, nLight, IMAT and Old Castle Building Envelopes. nLight exceeded permit limitations for pH, Old Castle exceed permit limitations for TSS and IMAT exceeded their daily flow limit during process evaluation testing. All violations were referred to Ecology.

#### **FORM 8 SUMMARY**

All Four of the SIU's were sampled twice by the District for all regulated parameters during 2013. All four SIU's were inspected once by the District during 2013.

#### **FORM 9 SUMMARY**

There were no programmatic changes during 2013.

#### **FORM 10 SUMMARY**

Total budget for the pretreatment program increased slightly from the \$125,031 budgeted for 2012 to \$125,996 budgeted for the year 2013. Pretreatment actual staff hours worked increased slightly from 1,709 in 2012 to 1,982 for 2013 due to the retirement of pretreatment staff which required a 4-week overlap for training of the replacement staff. The District is anticipating 2,100 staff hours for 2014.

#### **FUTURE PROGRAM WORK**

1. Continue development and population of FOG inspection tracking program to respond to growing needs.
2. Review and update pretreatment program documents as needed.
3. Continue educational outreach program.
4. Continue to attend peer group meetings to stay informed of activities and regulatory impacts affecting the District.
5. Develop an Annual Target Survey cycle for all commercial businesses in the District service area.



FORM 3

SALMON CREEK WASTEWATER TREATMENT PLANT SAMPLING

CAS ID#	Parameter Sample date	Influent				Average Influent	CAS ID#	Total Metals per EPA 200 series	Effluent				Average Effluent	Percent Removal								
		1/16/13	4/9/13	8/20/13	11/6/13				1/17/13	4/10/13	8/21/13	11/7/13										
Results in mg/L																						
		Qualifiers	Qualifiers	Qualifiers	Qualifiers			Qualifiers	Qualifiers	Qualifiers	Qualifiers	Qualifiers										
7440-36-0	Antimony	0.00130	J	0.00093	J, B	0.00057	J	0.00040	J, B	0.00080		7440-36-0	Antimony	0.00035	J	0.00029	J	0.00030	J	0.00031	0.00031	61%
7440-38-2	Arsenic	0.0024		0.0028	J	0.0019		0.00230		0.00235		7440-38-2	Arsenic	0.0016		0.0016		0.00160		0.00180	0.00165	30%
7440-41-7	Beryllium	< 0.0010		< 0.001		< 0.0010		< 0.0010		0.00050		7440-41-7	Beryllium	< 0.0010		< 0.0010		< 0.00100		< 0.00100	0.00050	0%
7440-43-9	Cadmium	< 0.0005		< 0.0005		< 0.0005		< 0.00050		0.00025		7440-43-9	Cadmium	< 0.0005		< 0.0005		< 0.00050		< 0.00050	0.00025	0%
7440-47-3	Chromium	< 0.010		< 0.0100		0.0026		0.0024		0.00625		7440-47-3	Chromium	< 0.0009	J	< 0.0020		< 0.00100		< 0.00100	0.00061	90%
7440-50-8	Copper	0.097		0.150		0.077		0.04100		0.09125		7440-50-8	Copper	0.0260		0.035		0.02200		0.01000	0.02325	75%
7439-89-6	Iron					0.52				0.52		7439-89-6	Iron					0.006			0.006	99%
7439-92-1	Lead	0.0012	J	0.0017	J	0.00160		0.00150	B	0.00150		7439-92-1	Lead	0.00072	J	0.00027	J	0.00038	J	0.000200	0.00039	74%
7439-98-7	Molybdenum	0.0076	J, B	0.0029	J	0.00360		0.0040		0.00453		7439-98-7	Molybdenum	0.00170	J, B	0.00061	J	0.00061	J	0.0012	0.00367	19%
7440-02-0	Nickel	0.0030	J	0.0034	J	0.00290	B	0.0029	B	0.00305		7440-02-0	Nickel	0.0017	J	0.0012	J	0.00190	J, B	0.00140	0.00155	49%
7782-49-2	Selenium	0.0017		0.00087	J	0.00083	J	0.000630	J	0.00101		7782-49-2	Selenium	0.00026	J	0.00027	J	0.00020	J	0.000190	0.00023	77%
7440-22-4	Silver	0.00039	J	0.00066	J	0.00027	J	0.00036	J	0.00042		7440-22-4	Silver	0.000084	J	0.000036	J	< 0.000500		0.000046	0.00016	63%
7440-28-0	Thallium	< 0.0005		< 0.0005		< 0.0005		0.00050		0.00025		7440-28-0	Thallium	< 0.0005		< 0.00050		< 0.0005		< 0.00050	0.00025	0%
7440-66-6	Zinc	0.14		0.150		0.14		0.12		0.1375		7440-66-6	Zinc	0.060		0.050		0.051		0.045	0.052	63%
	<b>DATE:</b>	1/16/13		4/9/13		8/20/13		11/6/13		<b>AVE INF</b>			<b>DATE:</b>	1/17/13		4/9/13		8/20/13		11/7/13	<b>AVE EFF</b>	<b>% Removal</b>
	Mercury (EPA 1631E)			0.0000093		0.00019	B			0.0000850		7439-97-6	Mercury (EPA 1631E)			0.0000011		0.0000017	B		0.0000085	99%

1/2 of the detection limit was used for all non-detectable data in percent removal calculations

B - The compound was found in the blank and sample

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to

or equal to

1/2 of the detection limit was used for all non-detectable data in percent removal calculations

B - The compound was found in the blank and sample

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to

the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability.

**FORM 3**

**SALMON CREEK WASTEWATER TREATMENT PLANT SAMPLING (cont.)**

CAS ID#	Parameter	EPA Method	mg/kg dry	mg/kg dry	mg/kg dry	mg/kg dry
	Biosolids		1st QTR	2nd QTR	3rd QTR	4th QTR
7429-90-5	Aluminum	6010B	5180			
7440-36-0	Antimony	6020(A)	<2	<2	<2	<1
7440-38-2	Arsenic	6020(A)	4	4	4	5
7440-39-3	Barium	6020	174			
7440-41-7	Beryllium	6020(A)	<2	<2	<2	<1
7440-42-8	Boron	6010B	30			
7440-43-9	Cadmium	6020(A)	1.2	1.1	1.6	1.1
7440-47-3	Chromium	6020(A)	20	20	20	20
7440-47-3	Chromium VI	SM3500Cr-D	6.32	<3.27	<3.26	<2.95
7440-48-4	Cobalt	6020	3			
7440-50-8	Copper	6020(A)	423	395	383	431
7439-89-6	Iron	6010B	5990			
7439-92-1	Lead	6020(A)	10.3	9.9	10	10
7439-95-4	Magnesium	6010B	148			
7439-96-5	Manganese	6020	8800			
7439-97-6	Mercury	7471A	0.600	1.1	0.8	1.4
7439-98-7	Molybdenum	6020(A)	42	37.0	34.0	19.0
7440-02-0	Nickel	6020(A)	14.0	15.0	15.0	19.0
7782-49-2	Selenium	6020(A)	7	8.0	7.0	7.0
7440-22-4	Silver	6020(A)	4	4.00	4.00	4.00
7440-28-0	Thallium	6020(A)	<2	<2	<2	<1
7440-31-5	Tin	6020(A)	20			
7440-32-6	Titanium	6020(A)	223			
7440-66-6	Zinc	6020(A)	660	650	640	740
<b>Conventional</b>						
			<b>mg/kg dry</b>			
57-12-5	Cyanide	9010B	0.98			
7723-14-0	Phosphorus	6010B	31400	31900	39100	34800
7664-36-0	Ammonia-N	350.1	17600	15600	16700	11700
	Total Kjeldahl Nitrogen	351.2	79600	76000	81600	72900
	Total Solids	160.3m	12500	12100	11930	13420
	Total Volatile Solids	160.4	9598	9165	9051	10332
14797-65-0	Nitrite-Nitrogen	300.0	<6.96	5.95	6.64	6.56
14797-55-8	Nitrate-Nitrogen	300.0	<6.96	<0.03	<0.03	<0.75
	pH (SU)	150.1	7.68	7.78	7.77	7.86
14808-79-8	Sulfate	300.0	62.1			
16984-48-8	Fluoride	300.0	<3.48			
24687-31-8	Bromide	300.0	<3.48			
18496-25-8	Sulfide	9030B	2610			
64743-03-9	Phenolics	420.1	18.2			
68153-81-1	Oil and Grease (T)	1664	<1895			
68153-81-1	Oil and Grease (P)	1664	<1895			
	Fecal Coliform (Geomean)	SM 9221	4,653	6258	5,035	51258
<b>Polybrominated Diphenyl Ethers</b>						
			<b>ug/kg dry</b>			
97038-97-6	PBDE 100	8270C SIM	73			
81397-99-1	PBDE 99	8270C SIM	430			
56-307-79-0	PBDE 85	8270C SIM	13			
	PBDE (Total)	8270C SIM	516			
<b>Biosolids Production</b>						
		<b>Dry Tons</b>	<b>% Moisture</b>	<b>% Solids</b>		
	SCWWTP	968.07	88	12		
	Ridgefield	87.02	88	12		
	Total	1,055.09				

FORM 3

SALMON CREEK WASTEWATER TREATMENT PLANT SAMPLING (cont.)

CAS ID#	Parameter	Influent	Qualifiers	Effluent	Qualifiers	Percent	Biosolids
		8/20/13		8/21/13		Removal	3/11/13
	<i>Semivolatile Organic Compounds per EPA Method 625/8270B</i>	ug/l		ug/l		(%)	mg/kg
<b>Acid and Base/Neutrals</b>							
83-32-9	Acenaphthene'	< 0.285		< 0.285		0%	<0.105
208-96-8	Acenaphthylene'	< 0.160		< 0.160		0%	<0.105
120-12-7	Anthracene'	< 0.250		< 0.250		0%	<0.105
92-87-5	Benzidine'	< 1.200		< 1.200		0%	6.6
56-55-3	Benzo (a) Anthracene'	< 0.205		< 0.205		0%	<0.105
50-32-8	Benzo (a) Pyrene'	< 0.275		< 0.275		0%	<0.105
205-99-2	Benzo (b) fluoroanthene'	< 0.290		< 0.290		0%	<0.105
207-08-9	Benzo (k) fluoranthene'	< 0.200		< 0.200		0%	<0.105
191-24-2	Benzo (ghi) perylene'	< 0.475		< 0.475		0%	
111-91-1	Bis(2-chloroethoxy) methane'	< 0.400		< 0.400		0%	<0.105
111-44-4	Bis (2-chloroethyl) ether'	< 5.000		< 5.000		0%	0.4
39638-32-9	Bis(2-chloroisopropyl) ether'	< 0.405		< 0.405		0%	<0.105
117-81-7	bis (2-ethylhexyl) phtalate'	12.000	J	< 0.450		49%	30
101-55-3	4-Bromophenyl phenyl ether'	< 0.550		< 0.550		0%	
85-68-7	Butyl benzyl phtalate'	< 6.000		< 6.000		0%	<0.105
91-58-7	2-Chloronaphthalene'	< 0.320		< 0.320		0%	<0.105
7005-72-3	4-Chlorophenyl phenyl ether'	< 1.000		< 1.000		0%	<0.105
218-01-9	Chrysene'	< 0.170		< 0.170		0%	<0.105
53-70-3	Dibenzo (a,h) anthracene'	< 0.260		< 0.260		0%	<0.105
91-94-1	3,3'-Dichlorobenzidine'	< 3.900		< 3.900		0%	<0.105
84-66-2	Diethyl phtalate'	< 0.800		< 0.800		50%	<0.105
131-11-3	Dimethyl phtalate'	< 0.800		< 0.800		0%	<0.105
84-74-2	Di-n-butyl phtalate'	< 4.450		< 4.450		0%	<0.105
606-20-2	2,6-Dinitrotoluene'	< 3.400		< 3.400		0%	<0.105
117-84-0	Di-n-octyl phtalate'	< 21.000		< 21.000		0%	<0.105
206-44-0	Flouranthene'	< 0.500		< 0.500		0%	<0.105
86-73-7	Fluorene'	< 0.200		< 0.200		0%	<0.105
118-74-1	Hexachlorobenzene'	< 1.300		< 1.300		0%	<0.105
87-68-3	Hexachlorobutadiene'	< 2.900		< 2.900		0%	<0.105
77-47-4	Hexachlorocyclopentadiene'	< 2.150		< 2.150		0%	<0.5
67-72-1	Hexachloroethane'	< 2.300		< 2.300		0%	<0.105
193-39-5	Indeno (1,2,3-cd) Pyrene'	< 0.900		< 0.900		0%	<0.105
78-59-1	Isophorone'	< 0.750		< 0.750		0%	<0.105
56-49-5	3-Methyl Cholanthrene	< 2.650		< 2.650		0%	<0.105
91-20-3	Napthalene'	< 0.380		< 0.380		0%	<0.105
98-95-3	Nitrobenzene'	< 0.500		< 0.500		0%	<0.105
62-75-9	N-Nitrosodimethylamine'	< 1.100		< 1.100		0%	<0.105
621-64-7	N-Nitrosodi-n-Propylamine'	< 4.550		< 4.550		0%	<0.105
55-18-5	N-Nitrosodiphenylamine'	< 1.850		< 1.850		0%	<0.5
85-01-8	Phenanthrene'	< 0.335		< 0.335		0%	<0.105
129-00-0	Pyrene'	< 0.195		< 0.195		0%	<0.105
120-82-1	1,2,4-Trichlorobenzene'	< 2.300		< 2.300		0%	<0.105
<b>Acid Compounds</b>							
95-57-8	2-chlorophenol	< 7.500		< 7.500		0%	<0.105
120-83-2	2,4 Dichlorophenol	< 1.400		< 1.400		0%	<0.5
105-67-9	2,4-Dimethylphenol	< 0.650		< 0.650		0%	<0.105
534-52-1	4,6-dinitro-o-cresol	< 3.600		< 3.600		0%	<0.105
51-28-5	2,4-Dinitrophenol	< 3.950		< 3.950		0%	<1.05
88-75-5	2-Nitrophenol	< 0.700		< 0.700		0%	<0.105
100-02-7	4-Nitrophenol	< 6.500		< 6.500		0%	<0.5
87-86-5	Pentachlorophenol	< 1.950		< 1.950		0%	<0.5
108-95-2	Phenol	10.000	J	< 0.650		97%	15
88-06-2	2,4,6-Trichlorophenol	< 1.100		< 1.100		0%	<0.105

\* LCS or LCSD exceeds the control limits

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability

FORM 3

SALMON CREEK WASTEWATER TREATMENT PLANT SAMPLING (cont.)

CAS ID#	Parameter <i>Organochlorine Pesticides and PCBs per EPA Method 608</i>	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal (%)	Biosolids
		8/20/13		8/21/13			3/11/13
		ug/l		ug/l			ug/kg dry
309-00-2	Aldrin	< 0.00028		< 0.00028		0%	< 8.5000
319-84-6	alpha-BHC	< 0.00125	^	< 0.00125	^	0%	< 13
319-85-7	beta-BHC	< 0.00070	^	< 0.00070	^	0%	< 22.5
58-89-9	delta-BHC	< 0.00024	^	< 0.00024	^	0%	< 8.5
319-86-8	gamma-BHC (Lindane)	< 0.00028		< 0.00028		0%	< 39.5
57-74-9	Chlordane (tech)	< 0.01100	*	< 0.01100	*	0%	< 8.500
72-54-8	4,4'-DDD	< 0.00038	^	< 0.00038	^	0%	< 16.5000
72-55-9	4,4'-DDE	< 0.00050		< 0.00050		0%	< 16.5
50-29-3	4,4'-DDT	< 0.00048	^	< 0.00048	^	0%	< 16.5
60-57-1	Dieldrin	< 0.00043		< 0.00043		0%	< 16.5
959-98-8	Endosulfan I	< 0.00024	*	< 0.00024	*	0%	< 13
33213-65-9	Endosulfan II	< 0.00043		< 0.00043		0%	< 16.5000
1031-07-8	Endosulfan Sulfate	< 0.00038		< 0.00038		0%	< 16.5
72-20-8	Endrin	< 0.00034		< 0.00034		0%	< 16.5
7421-93-4	Endrin Aldehyde	< 0.00048		< 0.00048		0%	< 16.5
76-44-8	Heptachlor	< 0.00024		< 0.00024		-25%	< 8.5
1024-57-3	Heptachlor Epoxide	< 0.00043		< 0.00043		0%	< 8.5
8001-35-2	Toxaphene	< 0.13000		< 0.13000		0%	< 85.000
12674-11-2	Aroclor 1016	< 0.02150		< 0.02150		0%	< 16.500
11104-28-2	Aroclor1221	< 0.02950		< 0.02950		0%	< 16.500
11141-16-5	Aroclor 1232	< 0.01950		< 0.01950		0%	< 16.500
53469-21-9	Aroclor 1242	< 0.01950		< 0.01950		0%	< 16.500
12672-29-6	Aroclor 1248	< 0.03350		< 0.03350		0%	< 25.000
11097-69-1	Aroclor 1254	< 0.02100		< 0.02100		0%	< 25.000
11096-82-5	Aroclor 1260	< 0.01850		< 0.01850		0%	< 16.500

1/2 of the detection limit was used for all non-detectable data in percent removal calculations

C - Calibration Verification recovery was above the method control limit for this analyte. Analyte not detected, data not impacted

^ - ICV, CCV, ICB, CCB, ISA, ISB, CRI, DLCK, or MRI standard: Instrument related QC exceeds the control limits

\* - LCS or LCSD exceeds the control limits



**FORM 3**

**SALMON CREEK WASTEWATER TREATMENT PLANT SAMPLING (cont.)**

CAS ID#	Parameter	EPA Method	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal
	<i>Conventional Pollutants</i>		8/20/13		8/21/13		
			mg/l		mg/l		%
68153-81-1	Oil and Grease (total)	1664	18.00		< 2.70		93%
18496-25-8	Sulfides, Total	SM4500 /S2E	0.260		< 0.003		100%
57-12-5	Cyanide	EPA 335.4/ SM4500-CN C	0.00540	J	0.0031	J	43%
7664-36-0	Ammonia	SM4500NH3-G	37.0		< 0.003		100%
7440-42-8	Boron	EPA 200.7	0.240	J	0.220	J	8%
16887-00-6	Chloride	EPA 300	46		46		0%
16984-48-8	Fluoride	EPA 300	1.30		0.340		74%
7440-70-2	Calcium	EPA 200.7	40		33		18%
7439-95-4	Magnesium	EPA 200.7	12		10		20%
	Hardness	EPA 207	150		120		20%
14797-55-8	Nitrate-N	SM4500-NO3-F	< 0.5		12.0		-1175%
14808-79-8	Sulfate	EPA300	11		19		-73%
	TDS	SM2540-C	410		350		15%
	TIN	Calculation	37.50		0 12.006		68%
7723-14-0	TP	SM4500-PF	17.0	B	1.300	B	92%
64743-03-9	Phenolics	EPA 420.1	0.0330		< 0.0100	J	70%
	Salinity	Sm2520-B	30.00		20.000		33%

1/2 of the detection limit was used for all non-detectable data in percent removal calculations

H - Sample analysis performed past method-specified holding time

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability

B - Compound was found in the blank and sample

**FORM 3**

**SALMON CREEK WASTEWATER TREATMENT PLANT SAMPLING (cont.)**

CAS ID#	Parameter <i>Volatile Organic Compounds per EPA Methods 624/5035/8260B</i>	Influent	Qualifiers	Effluent	Qualifiers	Percent Removal	Biosolids
		8/20/13		8/21/13			3/11/13
		ug/l		ug/l		%	ug/kg
107-02-8	Acrolein	< 5.00		< 5.00		0%	< 195
107-13-1	Acrylonitrile	< 3.00		< 3.00		0%	< 19.5
71-43-2	Benzene	< 0.10		< 0.10		0%	< 3.9
75-25-2	Bromoform	< 0.05		< 0.05		0%	< 3.9
75-27-4	Dichlorobromomethane	< 0.05		< 0.05		0%	
56-23-5	Carbon tetrachloride	< 0.25		< 0.25		0%	< 3.9
108-90-7	Chlorobenzene	< 0.25		< 0.25		0%	< 3.9
110-75-8	2-Chloroethylvinyl ether	< 5.00		< 5.00		0%	< 19.5
74-87-3	Chloromethane	< 2.50		< 2.50		0%	< 3.9
75-00-3	Chlorethane	< 0.25		< 0.25		0%	< 3.9
67-66-3	Chloroform	0.97		< 0.25		74%	< 3.9
124-48-1	dibromchloromethane	< 0.05		< 0.05		0%	< 3.9
75-34-3	1,1-Dichloroethane	< 0.25		< 0.25		0%	< 3.9
107-06-2	1,2-Dichloroethane	< 0.25		< 0.25		0%	< 3.9
75-35-4	1,1-Dichloroethylene	< 0.25		< 0.25		0%	< 3.9
78-87-5	1,2-Dichloropropane	< 0.25		< 0.25		0%	< 3.9
542-75-6	1,3-Dichloropropylene	< 0.25		< 0.25		0%	< 3.9
100-41-4	Ethylbenzene	< 0.25		< 0.25		0%	< 3.9
74-83-9	Bromomethane/methyl Bromide	< 2.50		< 2.50		0%	
75-09-2	Methylene chloride	< 2.50		< 2.50		0%	< 3.9
79-34-5	1,1,1,2-Tetrachloroethane	< 0.25		< 0.25		0%	< 3.9
127-18-4	Tetrachloroethylene	0.30	J	< 0.25		17%	< 3.9
108-88-3	Toluene	3.30		< 0.25	J	92%	80
156-60-5	1,2-Trans-Dichloroethylene	< 0.25		< 0.25		0%	< 3.9
71-55-6	1,1,1-Trichloroethane	< 0.25		< 0.25		0%	< 3.9
79-00-5	1,1,2-Trichloroethane	< 0.25		< 0.25		0%	< 3.9
79-01-6	Trichloroethylene	< 0.25		< 0.25		0%	< 3.9
75-01-4	Vinyl Chloride	< 0.25		< 0.25		0%	< 3.9
100-42-5	Styrene	< 0.25		< 0.25		0%	< 3.9
67-64-1	Acetone	62.00		< 12.50		80%	< 3.9
<b>Additional analysis</b>							
10061-01-5	Trans- 1,3-Dichloropropene	< 0.3		< 0.3		0%	
75-69-4	2-Butanone (MEK)	3.3	J	< 0.0		100%	

1/2 of the detection limit was used for all non-detectable data in percent removal calculations

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability

H - Past holding time

B - Compound was found in the blank and sample

FORM 3A

TENTATIVELY IDENTIFIED COMPOUNDS

Parameter	Influent		Effluent		Parameter	Influent		Effluent	
	8/20/13	Qualifier	8/21/13	Qualifier		8/20/13	Qualifier	8/20/13	Qualifier
<b>SVOC* PER EPA Method 625</b>	Estimated Results in ug/l				<b>Purgeables by EPA 624 TIC*</b>	Estimated Results in ug/l			
<b>TIC* Estimated results</b>									
Tetradecanoic acid	320	TJN			Methanethiol	14.00			TJN
Octadecanoic acid	1800	TJN			Dimethyl sulfide	2.20			TJN
9-Octadecenoic acid, (E)	1800	TJN			4-Isopropyltoluene	0.73			J
n-Hexadecanoic	3300	TJN			3-Carene	3.60			TJN
E-15-Heptadecenal	170	TJN			Unknown hydrocarbon	3.70			J
Cholesterol	750	TJN			Unknown	2.90			TJN
17-(1,5-Dimethylhexyl)	760	TJN							
Unknown	210	TJ							
Unknown	240	TJ							
Unknown	210	TJ							
Unknown				25					TJ
Unknown				11					TJ
Unknown				22					TJ
Unknown				19					TJ
Unknown				20.0					TJ
Unknown				23					TJ
Unknown				23					TJ

\*TIC = Tentatively Identified Compounds

B - The compound was found in the blank and sample

J - Estimated value. Analyte detected at a level less than the Reporting Limit (RL) and greater than or equal to the Method Detection Limit (MDL). The user of this data should be aware that this data is of limited reliability

N - Presumptive evidence of material

T - Result is a tentatively identified compound (TIC) and an estimated value



FORM 4

LOCAL LIMIT EVALUATION

Name of the POTW: Salmon Creek Wastewater Treatment Plant

Average Total Flows for 2013	7.65 mgd
Average Domestic Flows for 2013	7.64 mgd
Average Comm/Indus Flows for 2013	0.0078 mgd
Average Battle Ground Flows for 2013	1.4 mgd
Average Inflow/Infiltration	0 mgd
Maximum Industrial Flow <sup>3</sup>	2.34 mgd

Parameter:	Local Limit: (mg/l)	Ave Inf Conc: (mg/l)	Ave Dom Conc: (mg/l)	Ave I/I Conc: (mg/l)	MAHL <sup>1</sup> (lbs.)	MAHL <sup>2</sup> (lbs)	CHL (lbs)	CDL (lbs)	CIL (lbs)	MIL (lbs)	%LL (%)	RC (lbs)	MAHL (i) (lbs)	%RC (%)
Arsenic (As)	0.53	0.00235	0.00144	0	10.4	0.66	0.150	0.092	0.058	10.3	0.006	10.3	10.3	99
Cadmium (Cd)	0.28	0.00025	0.00313	0	5.7	0.32	0.02	0.20	-0.18	5.5	-0.03	5.6	5.5	103
Chromium (Cr)	14.29	0.006250	0.00625	0	279.3	15.24	0.40	0.40	0.00	278.9	0.00	278.9	278.9	100
Copper (Cu)	3.59	0.09125	0.00313	0	70.3	8.68	5.82	0.20	5.62	70.1	8.03	64.4	70.1	92
Cyanide (CN)	5.09	0.0054	0.0042	0	99.6	5.74	0.34	0.27	0.08	99.3	0.08	99.3	99.3	100
Mercury (Hg)	0.20	0.000095	0.000574	0	3.9	0.22	0.006	0.00	0.00	3.9	0.00	3.9	3.9	100
Molybdenum	0.18	0.00453	0.00625	0	3.5	0.40	0.29	0.00	0.29	0.0	0.00	3.2	3.5	92
Nickel (Ni)	3.77	0.00305	0.00433	0	73.8	4.24	0.19	0.28	-0.08	73.6	-0.11	73.7	73.6	100
Silver (Ag)	4.41	0.00042	0.00204	0	86.2	4.81	0.03	0.13	-0.10	86.1	-0.12	86.2	86.1	100
Zinc (Zn)	1.76	0.13750	0.13715	0	43.1	7.50	8.77	8.74	0.03	34.3	0.10	34.3	34.3	100
Lead (Pb)	1.13	0.00150	0.00206	0	22.2	1.34	0.10	0.13	-0.04	22.1	-0.16	22.1	22.1	100
Selenium (Se)	1.46	0.00101	0.00268	0	28.7	1.60	0.06	0.17	-0.11	28.5	-0.37	28.6	28.5	100

I/I Conc: Per DOE Guidance, assumed to be zero because of lack of data

Domestic concentration data: Average of analytical results of CRWWD domestic wastewater sampling conducted in CRWWD during 1998, 1999, 2000, and 2003, except where noted

MAHL <sup>1</sup>: Per e-mail from Dave Knight to CRWWD Pretreatment Coordinator (dated 1/20/05), an MAHL was estimated by multiplying the domestic flows and concentrations times 8.34, adding the total of the industrial flow (maximum set aside for IU's) times the local limit times 8.34

MAHL <sup>2</sup> developed during the Local Limits Technical Evaluation of 2008

<sup>3</sup> The maximum flows set aside for IU's used in the MAHL calculation are from the Wastewater Facilities Plan/General Sewer Plan for the SCTP 2004

Current maximum flow set aside for industrial users was calculated as follows:

CRWWD: 2096 acres zoned industrial x 1012.5 gallons per acre per day = 2.13 mgd

BG: 490 acres zoned industrial x 421.875 gallons per acre per day = 0.21 mgd

Current total maximum industrial flows = 2.34 mgd



## FORM 5

### INDUSTRIAL SURVEY

Name of Industrial User	Address	Cat	Pollutant Permit/Limits	Permit #	Originating Jurisdiction	Comments
<b>Significant Industrial Users</b>						
Implanted Material Technology (IMAT)	12516 NE 95th ST, Vancouver, WA 98682	CIU	Categorical, Local Limit	Permit # ST 6162	Ecology/CRWWD	40 CFR Part 469
nLight Photonics Corporation	5408 NE 88th ST, Vancouver, WA 98665	CIU	Categorical, Local Limit	Permit # ST 6025	Ecology/CRWWD	40 CFR Part 469
ProTech Industries, Inc.	14113 NE 3rd CT, Vancouver, WA 98685	CIU	Categorical, Local Limit	Permit # ST 6194	Ecology/CRWWD	40 CFR Part 433.17

~~Strikethrough~~ - Industries removed from further survey efforts

Underline - New industry added

## FORM 5

### INDUSTRIAL SURVEY

Name of Industrial User	Address	Pollutant Permit/Limits	Originating Jurisdiction	Comments
<b>NON-SIGNIFICANT INDUSTRIAL USERS</b>				
Jo Ann Stores	7907 NE Hwy 99- Vancouver WA 98665	NSIU	CRWWD	Domestic only
Wheelkraft NW	1417 NE 76th St Suite- F Vancouver WA- 98665	NSIU	CRWWD	Domestic only
Young's Market	1301 NE 144th St Suite- 119 Vancouver WA- 98665	NSIU	CRWWD	Domestic only
Hydac	1201 NE 144th St Suite- 111 Vancouver WA- 98685	NSIU	CRWWD	Domestic only
May Martial Arts	14407 NE 13th Ave- Suite 122 Vancouver- WA 98685	NSIU	CRWWD	Domestic only
Emeritus at Orchards Village	10011 NE 118th Ave- Vancouver WA 98682	NSIU	CRWWD	Domestic only
Smith Root Inc	14014 NE Salmon- Creek Ave Vancouver- WA 98686	NSIU	CRWWD	Domestic only
U.N.F.I. - Dry Food Storage Office	10018 NE 72nd, Suite- 113 Vancouver WA- 98685	NSIU	CRWWD	Domestic only
Loann's Salon & Spa	13317 NE 1th Ave- Suite 119 Vancouver- WA 98685	NSIU	CRWWD	Domestic only
Jiffy Mart	7219 NE Hwy 99 Unit- 105 Vancouver WA- 98665	NSIU	CRWWD	Domestic only
Therapeutic Associates, Inc	318 NE 99th St Suite B- Vancouver WA 98685	NSIU	CRWWD	Domestic only
SOHA Wholesale	7219 NE Hwy 99 Unit- 101 Vancouver WA- 98665	NSIU	CRWWD	Domestic only
Mythic Realm Games, LLC	14313 NE 20th Ave- Vancouver WA 98686	NSIU	CRWWD	Domestic only



## FORM 5

### INDUSTRIAL SURVEY

Name of Industrial User	Address	Pollutant Permit/Limits	Originating Jurisdiction	Comments
<b>NON-SIGNIFICANT INDUSTRIAL USERS</b>				
Patti's Card Shop- Inc - Hallmark	7604 NE 5th Ave Suite- 104 Vancouver WA- 98665	NSIU	CRWWD	Domestic only
Cypress Point- Ventures LLC	12606 NE 95th St- Vancouver WA 98682	NSIU	CRWWD	Domestic only
Successful- Learning- Educational- Services	10000 NE 7th Ave Ste- 120 Vancouver WA- 98685	NSIU	CRWWD	Domestic only
A Quilt Forever	9317 NE Hwy 99- Vancouver WA 98665	NSIU	CRWWD	Domestic only
Family Chiropractic- Center	11815 NE Highway 99- Vancouver WA 98665	NSIU	CRWWD	Domestic only
Concept Reality-	7812 NE 19th Ct- Vancouver WA 98665	NSIU	CRWWD	Domestic only
T3 Construction	12323 NE 99th St Suite- 113 Vancouver WA- 98682	NSIU	CRWWD	Domestic only
Syndyne- Corporation	12109 NE 95th St- Vancouver WA 98682	NSIU	CRWWD	Domestic only
Peterson &- Associates	7917 NE Hazel Dell- Ave Vancouver WA- 98665	NSIU	CRWWD	Domestic only
Red Sun Foot- Massage	10501 NE Hwy 99 Ste- 7 Vancouver WA- 98665	NSIU	CRWWD	Domestic only

# FORM 5

## INDUSTRIAL SURVEY

Name of Industrial User	Address	Cat	Pollutant Permit/Limits	Originating Jurisdiction	Comments
<b>FATS, OILS AND GREASE PROGRAM</b>					
The Megabite	6920 NE Hwy 99- Vancouver WA 98665		NSIU	CRWWD	Add to FOG- Program
ARCO AmPm-	609 NE 99th St- Vancouver WA 98665		NSIU	CRWWD	Add to FOG- Program
Gateway Inn Exp	13101 NE 27th Ave- Vancouver WA 98686		NSIU	CRWWD	Add to FOG- Program
Round Table Pizza	616 NE 81st St- Vancouver WA 98665		NSIU	CRWWD	Add to FOG- Program
Porzio's	9904 NE Hwy 99- Vancouver WA 98665		NSIU	CRWWD	Add to FOG- Program
Natural Grocers	7604 NE 5th Ave- Vancouver WA 98665		NSIU	CRWWD	Add to FOG- Program
Billy Blues Bar &- Grill	7115 NE Hazel Dell Ave- Vancouver WA 98665		NSIU	CRWWD	Add to FOG- Program
Hacienda Market	8411 NE Hwy 99- Vancouver WA 98665		NSIU	CRWWD	Add to FOG- Program

FORM 5

INDUSTRIAL SURVEY

Name of Industrial User	Address	Cat	Pollutant Permit/Limits	Originating Jurisdiction	Comments
<b>MEDICAL FACILITIES</b>					
Legacy Health-System	2211 NE 139th St. Vancouver WA 98686		NSIU	CRWWD	Domestic only

# FORM 5

## BATTLE GROUND INDUSTRIAL SURVEY

Name of Industrial User	Address	Cat	Pollutant Permit/Limits	Permit #	Originating Jurisdiction	Comments
<b>CITY OF BATTLE GROUND SIU's</b>						
Oldcastle Building Envelope	1611 SE Commerce Ave, Battle Ground, WA 98604	SIU	Local Limits	ST 6203	Ecology/CRWWD	Discharging under State Waste Discharge Permit No. 6203, issued 10/26/12, with effective date of 12/1/12, expiration date of 11/30/17

**FORM 5**

**BATTLE GROUND INDUSTRIAL SURVEY**

<b>Name of Industrial User</b>	<b>Address</b>	<b>Pollutant Permit/Limits</b>	<b>Originating Jurisdiction</b>	<b>Comments</b>
<b>CITY OF BATTLE GROUND NON-SIGNIFICANT INDUSTRIAL USERS</b>				

**FORM 5**

**BATTLE GROUND INDUSTRIAL SURVEY**

<b>Name of Industrial User</b>	<b>Address</b>	<b>Cat</b>	<b>Pollutant Permit/Limits</b>	<b>Originating Jurisdiction</b>	<b>Comments</b>
<b>CITY OF BATTLE GROUND FATS, OILS AND GREASE PROGRAM</b>					

**FORM 5**

**BATTLE GROUND INDUSTRIAL SURVEY**

Name of Industrial User	Address	Cat	Pollutant Permit/Limits	Originating Jurisdiction	Comments
<b>CITY OF BATTLE GROUND MEDICAL FACILITIES</b>					

**FORM 5**

**RIDGEFIELD INDUSTRIAL SURVEY**

Name of Industrial User	Address	Cat	Pollutant Permit/Limits	Originating Jurisdiction	Comments
<b>CITY OF RIDGEFIELD SIU's</b>					



**FORM 5**

**RIDGEFIELD INDUSTRIAL SURVEY**

Name of Industrial User	Address	Cat	Pollutant Permit/Limits	Originating Jurisdiction	Comments
<b>CITY OF RIDGEFIELD NON-SIGNIFICANT INDUSTRIAL USERS</b>					

**FORM 5  
RIDGEFIELD INDUSTRIAL SURVEY**

<b>Name of Industrial User</b>	<b>Address</b>	<b>Cat</b>	<b>Pollutant Permit/Limits</b>	<b>Originating Jurisdiction</b>	<b>Comments</b>
<b>CITY OF RIDGEFIELD FATS OILS AND GREASE PROGRAM</b>					

**FORM 5**

**RIDGEFIELD INDUSTRIAL SURVEY**

Name of Industrial User	Address	Cat	Pollutant Permit/Limits	Originating Jurisdiction	Comments
CITY OF RIDGEFIELD MEDICAL FACILITIES					



**FORM 6**

**SIU COMPLIANCE SUMMARIES**

Pro-Tech Industries Inc.										
WA Permit No. ST 6194; effective 10/1/08										
14113 NE 3rd Court Vancouver, WA 98685										
Sample Date:										
Sampled by:										
Monitored Quarterly Report Submitted Quarterly										
PARAMETER NAME	Self-Monitoring Sampling Frequency	UNITS	LIMITS	Jan-Mar -13	Apr-Jun -13	Jul-Sep -13	Oct-Dec -13	Self	Self	Self
Flow (max daily)	Continuous	gpd	1500	478	540	570	570			570
Flow (avg mthly)	Continuous	gpd	750	143	275	284	255			255
pH (Minimum)	Continuous	SU	6.0	6.0	6.0	6.1	6.03			6.03
pH (Maximum)	Continuous	SU	9.0	6.9	7.92	7.62	7.1			7.1
BOD5	Quarterly	mg/L	1000	363	200	240	277			277
Arsenic	Quarterly	mg/L	0.1	0.011	0.0043	0.0082	0.012			0.012
Cadmium (T) daily max	Quarterly	mg/L	0.11	0.0021	0.0027	0.011	0.0031			0.0031
Cadmium (T) mthly avg	Quarterly	mg/L	0.07	0.0021	0.0027	0.011	0.0031			0.0031
Chlorine Demand	Quarterly	mg/L	20	2.32	N/A	N/A	N/A			N/A
Chromium (T) daily max	Quarterly	mg/L	1.7	0.018	0.012	0.035	0.021			0.021
Copper (T) daily max	Quarterly	mg/L	2.2	0.43	0.038	0.29	0.32			0.32
Copper (T) mthly avg	Quarterly	mg/L	2.07	0.43	0.038	0.29	0.32			0.32
Cyanide (T) daily max	Quarterly	mg/L	0.2	<0.002	0.003	<0.008	<0.00025			<0.00025

FORM 6

SIU COMPLIANCE SUMMARIES

Pro-Tech Industries Inc.										
WA Permit No. ST 6194; effective 10/1/08										
14113 NE 3rd Court Vancouver, WA 98685										
Sample Date:										
Sampled by:										
Monitored Quarterly Report Submitted Quarterly										
PARAMETER NAME	Self-Monitoring Sampling Frequency	UNITS	LIMITS	Jan-Mar -13	Apr-Jun -13	Jul-Sep -13	Oct-Dec -13	Self	Self	Self
Lead (T) daily max	Quarterly	mg/L	0.4	0.0048	0.0021	0.0035	0.00990			
Mercury (T) daily max	Quarterly	mg/L	0.05	<0.000049	0.000055	<0.0002	<0.0002			
Molybdenum	Quarterly	mg/L	0.36	0.0062	0.0024	0.0052	0.0039			
Nickel (T) daily max	Quarterly	mg/L	2.1	0.038	0.051	0.035	0.063			
Selenium (T) daily max	Quarterly	mg/L	0.1	<0.0016		<0.00046	0.00100			
Silver (T) daily max	Quarterly	mg/L	0.1	<0.0018	0.000075	<0.00009	0.00026			
Zinc (T) daily max	Quarterly	mg/L	2.3	0.18	0.2	0.26	0.17			
Zinc (T) monthly avg	Quarterly	mg/L	1.48	0.18	0.2	0.26	0.17			
Phenols or Cresols	Quarterly	mg/L	0.6	<0.0083	0.380	0.21	0.0039			
TTO	Quarterly	mg/L	2.13	N/A	N/A	N/A	N/A			
O & G (N)	Quarterly	mg/L	50	7.0	<5.2	2.7	13			
O & G (P)	Quarterly	mg/L	100	11.0	3.5	2.9	11			
TSS	Quarterly	mg/L	300	57.2	55	78	65.6			

J = An estimate that is less than the MRL but greater than or equal to the MDL

**FORM 6**

**SIU COMPLIANCE SUMMARIES**

Pro-Tech Industries Inc.						
WA Permit No. ST 6194; effective 10/10/08						
14113 NE 3rd Court Vancouver, WA 98685			Sample Date:	4/18/13		9/5/13
Monitored twice per year by POTW			Sampled By:	POTW		POTW
PARAMETER NAME	Self-Monitoring Sampling Frequency	UNITS	LIMITS			
pH	Continuous	SU	6.0-9.0	6.2*		7.4
BOD5	Quarterly	mg/L	1000	200		240
Arsenic	Quarterly	mg/L	0.1	0.0043		0.0082
Cadmium (T) daily max	Quarterly	mg/L	0.11	0.0027		0.011
Cadmium (T) mthly avg	Quarterly	mg/L	0.07	0.0027		0.011
Chlorine Demand	Quarterly	mg/L	20	5.50		N/A
Chromium (T) daily max	Quarterly	mg/L	1.7	0.012		0.035
Copper (T) daily max	Quarterly	mg/L	2.2	0.38		0.290
Copper (T) mthly avg	Quarterly	mg/L	2.07	0.38		0.290
Cyanide (T) daily max	Quarterly	mg/L	0.2	0.00300		<0.050
Lead (T) daily max	Quarterly	mg/L	0.4	0.0021	J	0.0035
Mercury (T) daily max	Quarterly	mg/L	0.05	<0.00020		<0.00020
Molybdenum (T) daily max	Quarterly	mg/l	N/A	0.0024	J	0.0052
Nickel (T) daily max	Quarterly	mg/L	2.1	0.051		0.035
Selenium	Quarterly	mg/L	0.1	<0.0050		<0.0050
Silver (T) daily max	Quarterly	mg/L	0.1	0.000075		<0.0050
Zinc (T) daily max	Quarterly	mg/L	2.3	0.2		0.260
Zinc (T) mthly avg	Quarterly	mg/L	1.48	0.2		0.260
Phenols or Cresols	Quarterly	mg/L	0.6	0.38		0.21
TTO	Quarterly	mg/L	2.13	N/A		N/A
O & G (P)	Quarterly	mg/L	100	3.5	J	2.7
O & G (N)	Quarterly	mg/L	50	3.5	J	2.9
TSS	Quarterly	mg/L	300	55		78

\*Due to pH meter malfunction pH field analysis performed 4/23/13

J - Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value

FORM 6

SIU COMPLIANCE SUMMARIES

nLight Photonics Corporation											
WA Permit No. ST 6025; effective 10/1/08											
5408 NE 88th Street Vancouver, WA 98665											
PARAMETER NAME	Self-Monitoring Sampling Frequency	Report Submitted Monthly	UNITS	LIMITS	Sample Date: Sampled By:	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13
						Self	Self	Self	Self	Self	Self
Flow (max daily)	Continuous		gpd	10,000		2701	5290	4285	4265	3654	4852
Flow (avg mthly)	Continuous		gpd	8,000		1983	2144	2500	2017	2253	2323
pH (Minimum)	Continuous		SU	6.00		6.6	6.3	6.0	5.2	6.0	5.2
pH (Maximum)	Continuous		SU	9.00		7.9	8.0	8.4	7.9	9.0	9.6
Arsenic (001) (daily max)	Monthly		mg/L	0.53		0.0111	0.0170	0.0109	<0.02	0.0469	0.0374
Arsenic (001)(instantaneous max)	Monthly		mg/L	1.06		0.0111	0.0170	0.0109	<0.02	0.0469	0.0374
Fluoride (daily max) (001)	Monthly		mg/L	32.0		0.289	10.4	2.18	0.371	0.673	0.442
Fluoride (mthly avg) (001)	Monthly		mg/L	17.4		0.289	10.4	2.18	0.371	0.673	0.442
TTO	Annual		mg/L	1.37		N/A	N/A	N/A	N/A	N/A	N/A
Fluoride (Outfall 002 daily max)	Monthly		mg/L	32.0		No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge
Fluoride (Outfall 002 mthly avg)	Monthly		mg/L	17.4		No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge
Arsenic (Outfall 003 daily max)	Monthly		mg/L	2.09		<0.002	0.0061	0.00540	<0.02	<0.01	<0.01
Arsenic (Outfall 003 mthly avg)	Monthly		mg/L	0.83		<0.002	0.0061	0.00540	<0.02	<0.01	<0.01
TSS (Outfall 004 daily max)	Monthly		mg/L	61.0		<2.00	<2.00	<2.0	<2.00	<5.0	<2.0
TSS (Outfall 004 mthly avg)	Monthly		mg/L	23.0		<2.00	<2.00	<2.0	<2.00	<5.0	<2.0



FORM 6

SIU COMPLIANCE SUMMARIES

nLight Photonics Corporation											
WA Permit No. ST 6025; effective 10/1/08											
5408 NE 88th Street											
Vancouver, WA 98665											
PARAMETER NAME	Self-Monitoring Sampling Frequency	Report Submitted Monthly	UNITS	LIMITS	Sample Date: Sampled By:	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
						Self	Self	Self	Self	Self	Self
Flow (max daily)	Continuous		gpd	10,000		3837	7154	6377	3588	8400	4985
Flow (avg mthly)	Continuous		gpd	8,000		2360	3328	3536	1981	2108	2346
pH (Minimum)	Continuous		SU	6.0		6.5	6.1	5.6	6.5	6.7	6.6
pH (Maximum)	Continuous		SU	9.0		7.8	8.8	8.6	11.1	8.4	8.3
Arsenic (001)	Monthly		mg/L	0.53		<0.02	0.022	<0.02	0.036	0.0298	0.0166
Arsenic (001)	Monthly		mg/L	0.53		<0.02	<0.010	<0.02	0.036	0.0298	0.0166
Fluoride (daily max)	Monthly		mg/L	32.0		<0.01	0.352	0.50	0.0187	0.454	0.429
Fluoride (mthly avg)	Monthly		mg/L	17.4		<0.01	0.352	0.50	0.0187	0.454	0.429
TTO	Annual		mg/L	1.37		N/A	N/A	<0.01	N/A	N/A	N/A
Fluoride (Outfall 002 daily max)	Monthly		mg/L	32.0		No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge
Fluoride (Outfall 002 mthly avg)	Monthly		mg/L	17.4		No Discharge	No Discharge	No Discharge	No Discharge	No Discharge	No Discharge
Arsenic (Outfall 003 daily max)	Monthly		mg/L	2.09		<0.02	0.01	0.0234	0.018	<0.01	<0.01
Arsenic (Outfall 003 mthly avg)	Monthly		mg/L	0.83		<0.02	0.01	0.0234	0.018	<0.01	<0.01
TSS (Outfall 004 daily max)	Monthly		mg/L	61.0		2.8	2.0	2.8	4.4	14.0	4.2
TSS (Outfall 004 mthly avg)	Monthly		mg/L	23.0		2.8	2.0	2.8	4.4	14.0	4.2

**FORM 6**

**SIU COMPLIANCE SUMMARIES**

<b>nLight Photonics Corporation</b>					
<b>WA Permit No. ST 6025; effective 10/1/08</b>					
<b>5408 NE 88th Street Vancouver, WA 98665</b>			<b>Sample Date:</b>	<b>4/26/13</b>	<b>9/13/13</b>
<b>Monitored twice per year by POTW</b>			<b>Sampled By:</b>	<b>POTW</b>	<b>POTW</b>
<b>PARAMETER NAME</b>	<b>Self-Monitoring Sampling Frequency</b>	<b>UNITS</b>	<b>LIMITS</b>		
pH	Continuous	SU	6.0-9.0	7.4	7.4
Arsenic (001)	Monthly	mg/L	0.1	0.13	0.0073
Fluoride (daily max) (001)	Monthly	mg/L	32.0	0.98	0.42
Fluoride (mthly avg)	Monthly	mg/L	17.4	0.98	0.42
TTO (001)	Annual	mg/L	1.37	N/A	<0.01**
Fluoride (Outfall 002 daily max)	Monthly	mg/L	32.0	11*	No Discharge
Fluoride (Outfall 002 mthly avg)	Monthly	mg/L	17.4	11*	No Discharge
Arsenic (Outfall 003 daily max)	Monthly	mg/L	2.09	0.0049	0.015
Arsenic (Outfall 003 mthly avg)	Monthly	mg/L	0.83	0.0049	0.015
TSS (Outfall 004 daily max)	Monthly	mg/L	61.0	<4.0	1.50
TSS (Outfall 004 mthly avg)	Monthly	mg/L	23.0	<4.0	1.50

Outfall 001 unless specified

\*Sampled 2/4/13

\*\* Sampled 9/25/13

FORM 6

SIU COMPLIANCE SUMMARIES

IMAT Inc.															
Permit No. ST-6162 Effective 2/1/09 Mod. 4/6/09, 8/11/09															
12516 NE 95th Street, Vancouver, WA 98682															
Sample Date:															
Sampled By:															
Monitored Monthly Report Submitted Quarterly															
PARAMETER NAME	Self-Monitoring Sampling Frequency	UNITS	LIMITS	Jan-13		Feb-13		Mar-13		Apr-13		May-13		Jun-13	
				Self	Self	Self	Self	Self	Self	Self	Self	Self	Self		
Flow (AWN-max daily)	Estimated	gpd	6,000	2,065	3,471	3,223	7,158	1,910	1,705						
Flow (AWN-avg mthly)	Estimated	gpd	3,000	614	750	565	1,174	396	427						
Minimum pH	Continuous	SU	6.00	6.4	6.5	6.5	6.7	6.6	6.5						
Maximum pH	Continuous	SU	9.00	7.8	7.5	7.7	8.2	7.6	7.5						
Fluoride (daily max)	Monthly	mg/L	32.0	1.0	0.5	1.10	0.6	1.3	0.6						
Fluoride (mthly avg)	Monthly	mg/L	17.0	1.0	0.5	1.10	0.6	1.3	0.6						
TTO (daily max)	Annual	mg/L	1.37	Cert.	Cert.	Cert.	Cert.	Cert.	Cert.						
IMAT Inc.															
Permit No. ST-6162 Effective 2/1/09 Mod. 4/6/09, 8/11/09															
12516 NE 95th Street, Vancouver, WA 98682															
Sample Date:															
Sampled By:															
Monitored Monthly Report Submitted Quarterly															
PARAMETER NAME	Self-Monitoring Sampling Frequency	UNITS	LIMITS	Jul-13		Aug-13		Sep-13		Oct-13		Nov-13		Dec-13	
				Self	Self	Self	Self	Self	Self	Self	Self	Self	Self		

**FORM 6**

**SIU COMPLIANCE SUMMARIES**

<b>IMAT Inc.</b>					
<b>Permit No. ST-6162 Effective 2/1/09 Mod. 4/6/09, 8/11/09</b>					
<b>12516 NE 95th Street, Vancouver, WA 98682</b>			<b>Sample Date:</b>	<b>4/25/13</b>	<b>9/5/13</b>
<b>Monitored twice per year by POTW</b>			<b>Sampled By:</b>	<b>POTW</b>	<b>POTW</b>
<b>PARAMETER NAME</b>	<b>Self-Monitoring Sampling Frequency</b>	<b>UNITS</b>	<b>LIMITS</b>		
pH	Continuous	SU	6.0-9.0	7.2	6.9
Fluoride (daily max)	Quarterly	mg/L	32.0	0.95	0.33
Fluoride (mthly avg)	Quarterly	mg/L	17.4	0.95	0.32
TTO*	Annual	mg/L	1.37	*N/A	*N/A

\*N/A - Solvent management plan in effect

FORM 6

SIU COMPLIANCE SUMMARIES

Oldcastle Building Envelope															
Permit No. ST-6203 Effective 11/30/12															
1611 SE Commerce Avenue															
Ground, WA 98604															
Monitored Monthly Report Submitted Quarterly															
PARAMETER NAME	Self-Monitoring		LIMITS	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13
	Sampling Frequency	UNITS													
Flow (AWN-max daily)	Continuous	gpd	N/A	6426	5595	5102	6276	5,296	8423						
pH	Grab	SU	6.0-9.0	7.59	8.23	7.02	8.6	8.49	8.35						
TSS	Monthly	mg/L	300	76.6	142	64.8	160	114	215.0						
Copper	Monthly	mg/L	2.2	0.26	0.12	0.19	0.23	0.20	0.16						
Silver	Monthly	mg/L	0.1	0.00039	0.00075	0.00042	0.00062	<0.0025	0.00044						
Oldcastle Building Envelope															
Permit No. ST-6203 Effective 11/30/12															
1611 SE Commerce Avenue															
Ground, WA 98604															
Monitored Monthly Report Submitted Quarterly															
PARAMETER NAME	Self-Monitoring		LIMITS	Jul-13	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-13	Feb-13	Mar-13	Apr-13	May-13	Jun-13
	Sampling Frequency	UNITS													
Flow (AWN-max daily)	Continuous	gpd	N/A	11700	9553	11939	204759	29892	31598						
pH	Grab	SU	6.0-9.0	7.35	8.03	7.85	8.5	8.25	7.76						
TSS	Monthly	mg/L	300	108	143	6	397	108.0	13						
Copper	Monthly	mg/L	2.2	0.18	0.26	0.3	0.66	0.17	0.37						
Silver	Monthly	mg/L	0.1	0.00040	0.0015	<0.0025	0.0066	0.00060	0.0002						

**FORM 6**

**SIU COMPLIANCE SUMMARIES**

<b>OldCastle BuildingEnvelope</b>						
<b>Permit No. ST-6203 12/1/07 Mod. 9/9/08</b>						
<b>1611 SE Commerce Avenue Battle Ground, WA 98604</b>				<b>Sample Date:</b>	<b>4/18/13</b>	<b>9/6/13</b>
<b>Monitored twice per year by POTW</b>				<b>Sampled By:</b>	<b>POTW</b>	<b>POTW</b>
<b>PARAMETER NAME</b>	<b>Self-Monitoring Sampling Frequency</b>	<b>UNITS</b>	<b>LIMITS</b>			
pH	Continuous	SU	6.0-9.0	8.4*		7.5
TSS	Monthly	mg/L	300	120		12
Copper (T)	Monthly	mg/L	2.2	0.32		0.32
Silver (T)	Monthly	mg/L	0.1	<0.020		<0.020

\*Due to pH meter malfunction pH field analysis performed 4/23/13

**FORM 6  
MIU COMPLIANCE SUMMARIES**

Waste Connections		MIU Letter of Discharge (LOD) 3-2010 expires 3/31/15			LOD issued for characterization of waste stream. Sampling only		
9411 NE 94th Ave., Vancouver, WA 98662		Sample Date:	2/13/13	5/24/13	7/26/13	12/23/13	
Monitored Quarterly		Sampled By:	Self	Self	Self	Self	
PARAMETER NAME	Self-Monitoring Sampling Frequency	UNITS	LIMITS				
pH	Quarterly	SU	6.0-9.0	7.38	7.23	6.59	6.82
<b>Metals</b>							
Arsenic	Annual	ug/L	Report				5.71
Antimony	Annual	ug/L	Report				1.28
Beryllium	Annual	ug/L	Report				<0.1
Cadmium	Annual	ug/L	Report				1.52
Chromium	Annual	ug/L	Report				7.54
Copper	Annual	ug/L	Report				47.3
Lead	Annual	ug/L	Report				1.61
Mercury	Annual	ug/L	Report				0.22
Molybdenum	Annual	ug/L	Report				7.78
Nickel	Annual	ug/L	Report				8.22
Selenium	Annual	ug/L	Report				0.5
Silver	Annual	ug/L	Report				0.1
thallium	Annual	ug/L	Report				0.1
Zinc	Annual	ug/L	Report				325





FORM 7

ENFORCEMENT SUMMARY

Name of Industrial User	Violation		Enforcement		Resolution	
	Type*	Description	Action Taken	Date	Date	Date
<b>SIGNIFICANT INDUSTRIAL USERS**</b>						
nLIGHT Corporation	1	pH greater than 9.0	Referred to DOE	10/07/13	10/07/13	10/7/13
nLIGHT Corporation	1	pH lower than 6.0	Referred to DOE	09/28/13	09/28/13	9/28/13
Old Castle Building Envelope	1	TSS exeded permit limit	Referred to DOE	11/15/13	11/15/13	11/15/13
IMAT	1	Exceeded Max Flow for day.	Referred to DOE	01/15/13	01/15/13	1/21/13

Name of Industrial User	Violation		Enforcement		Resolution	
	Type*	Description	Action Taken	Date	Date	Date
<b>Minor Industrial Users</b>						

\* Type of Violation: 1 - Exceeding discharge limits; 2 - Missing or late reporting; 3 - Other violations  
 \*\* Partially delegated program - Ecology responsible for all SIU permit writing and enforcement actions.



**FORM 8**

**INDUSTRIAL MONITORING SCHEDULE**

Name of Industrial User	Sampling by POTW (for all regulated pollutants) Frequency/Year		Permit Reporting Requirements	Comparison Self/POTW Testing Y / N	POTW Inspection Frequency/Year		Comments
	2013	Will Perform 2014			2013	2014	
IMAT, Inc.	Twice	Twice	Quarterly	No	Once	Once	State Waste Discharge Permit No. ST 6162 issued 8/6/12, effective 7/1/13, expiring 6/30/18.
nLight Photonics Corporation	Twice	Twice	Monthly	No	Once	Once	State Waste Discharge Permit No. ST 6025; issued 6/26/12, effective date 7/1/13, expiration date 6/30/18.
ProTech	Twice	Twice	Quarterly	No	Once	Once	Discharging under State Waste Discharge Permit No. ST 6194, issued 12/6/12, effective date 7/1/13 expiration date of 6/30/18.
Oldcastle Building Envelope	Twice	Twice	Monthly	No	Once	Once	Discharging under State Waste Discharge Permit No. 6203, issued 10/26/12, effective date of 12/1/12, expiration date 11/30/17.

## FORM 8

### SLUG CONTROL PLAN REVIEW

Permit No.	Industry Name	Last Reviewed	Update or Plan Needed?	Status	Scheduled for review 2014
ST 6162	IMAT	2013	No	In compliance	Yes
ST 6025	nLight Photonics Corp	2013	No	In compliance	Yes
ST 6194	Pro Tech	2013	No	In compliance	Yes
ST 6203	Oldcastle Building Envelope	2013	No	In compliance	Yes

## FORM 9

### PRETREATMENT PROGRAM MODIFICATIONS

---

No modifications were made to the Clark Regional Waste Water District Pretreatment Program in 2013.



**FORM 10**  
**RESOURCE SUMMARY**

ITEM	2012 Cost	2013 Budget
Salaries	\$ 57,440	\$ 77,244
Benefits	\$ 18,203	\$ 22,395
Materials / Supplies	\$ 12,253	\$ 9,923
Overhead	\$ 13,669	\$ 16,434
<b>TOTALS</b>	<b>\$ 101,565</b>	<b>\$ 125,996</b>

ITEM	2013 Cost	2014 Budget
Salaries	\$ 57,441	\$ 62,507
Benefits	\$ 18,284	\$ 27,182
Materials/Supplies	\$ 12,253	\$ 10,342
Overhead	\$ 13,669	\$ 15,005
<b>TOTALS</b>	<b>\$ 101,647</b>	<b>\$ 115,036</b>

**Pretreatment Employee Hours**

ITEM	2013 Actual	Planned 2014
CRWWD Administration	1,079	1,100
CRWWD Inspection	597	300
Battle Ground Administration	5	50
Battle Ground Inspection	28	100
Ridgefield Administration	3	50
Ridgefield Inspection	-	50
Salmon Creek Gen Admin	122	200
Salmon Creek SIU's	149	250
<b>TOTALS</b>	<b>1,982</b>	<b>2,100</b>

**Pretreatment Equipment Inventory**

Oakton pH Meter	1
Sigma 900 Portable Sampler w/Accessories	1
Sigma 950 Area Velocity Flow Meter	2
1999 Chevrolet Astro Van	1
American Sigma Composite Sampler	1
Odalogger	5







proud past, promising future.

CLARK COUNTY  
WASHINGTON

February 11, 2014

David Knight, P.E.  
Environmental Engineer  
State of Washington  
Department of Ecology  
PO Box 47775  
Olympia, WA 98504-7775

Dear Mr. Knight:

RE: Signatory Authority – Industrial Pretreatment Reports  
Salmon Creek Wastewater Treatment Plant (SCWWTP)

The Clark Regional Wastewater District is under contract with Clark County Public Works to provide industrial pretreatment services for flows entering the Salmon Creek Wastewater Treatment Plant. As such, I am giving signatory authority to CRWD's representative, Andria Swann, to sign the required industrial pretreatment reports for the SCWWTP.

If you have any questions or concerns regarding this, please contact me at (360) 397-6118, extension 4358.

Sincerely,

Heath H. Henderson, P.E.  
Interim Public Works Director/County Engineer

C: Kay Hust, Salmon Creek Wastewater Treatment Plant  
Andria Swann, CRWD