Issuance Date:	March 30, 2016
Effective Date:	May 1, 2016
Expiration Date:	April 30, 2021
Modification Date:	September 28, 2017

National Pollutant Discharge Elimination System
Waste Discharge Permit No. WA0031682

State of Washington
DEPARTMENT OF ECOLOGY
Northwest Regional Office
3190 160th Avenue SE
Bellevue, WA 98008-5452

In compliance with the provisions of
The State of Washington Water Pollution Control Law
Chapter 90.48 Revised Code of Washington
and
The Federal Water Pollution Control Act
(The Clean Water Act)
Title 33 United States Code, Section 1342 et seq.

City of Seattle, Seattle Public Utilities

700 Fifth Avenue, Suite 4900

P.O. Box 34018

Seattle, WA 98124-4018

The City of Seattle is authorized to discharge combined sewage and stormwater at eighty-six (86) combined sewer overflow outfall locations, as indicated in Special Condition S1, and in accordance with the other Special and General Conditions that follow.

Mark Henley, P.E.
Water Quality Section Manager
Northwest Regional Office
Washington State Department of Ecology

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Summary of Permit Report Submittals

Refer to the Special and General Conditions of this permit for additional submittal requirements.

Permit Section	Submittal	Frequency	First Submittal Date
S4.A	Combined Sewer Overflow Monitoring Report	Monthly	June 28, 2016
S4.B	Annual CSO Report	Annually	March 31, 2017
S4.G.2.b	Reporting Permit Violations, 5-day Follow-up Report	As necessary	
S4.G.2.d	Reporting Permit Violations, Quarterly Basement Backup Follow-up Report	As necessary	
S6.C.1	Post-Construction Monitoring Program Quality Assurance and Sediment Sampling and Analysis Plans for outfalls 18, 68, and 95.	1 plan per outfall, per permit cycle.	See condition for specific submittal dates.
S6.C.3	Sediment Sampling Data Report for outfalls 13, 18, 68, and 95.	1 report per outfall, per permit cycle.	See permit section for specific submittal dates.
S6.C.4	Post-Construction Monitoring Data Report	1/permit cycle	October 30,2021
S7.A	Combined Sewer Overflow Reduction Plan Amendment	1/permit cycle with renewal application	October 30,2021
S8	Compliance Schedule Submittals	Multiple milestone requirements scheduled for completion between March 31, 2017 and December 31, 2020. See permit section for specific milestone dates.	
S9	Outfall Rehabilitation Plan and Inventory	1/permit cycle	October 30,2021
S10	Application for Permit Renewal	1/permit cycle	October 30,2021
G1	Notice of Change in Authorization	As necessary	
G4	Reporting Planned Changes	As necessary	
G5	Engineering Report for Construction or Modification Activities	As necessary	
G7	Notice of Permit Transfer	As necessary	
G10	Duty to Provide Information	As necessary	
G20	Compliance Schedules	As necessary	
G21	Contract Submittal	As necessary	

Special Conditions

S1. Authorized combined sewer overflow (CSO) discharge locations

Beginning on the effective date of this permit, the Permittee may discharge combined wastewater and stormwater from the CSO outfalls listed in Table 1. The CSO outfalls represent occasional point sources of pollutants as a result of overloading of the combined sewer system during precipitation events. The permit prohibits discharges not caused by precipitation events. This permit does not authorize a discharge from a CSO outfall that causes adverse impacts that threaten characteristic uses of the receiving water as identified in the water quality standards, Chapter 173-201A WAC, or result in an exceedance of the Sediment Management Standards, Chapter 173-204 WAC.

Outfall No.	Street Address	Latitude	Longitude	Name of Receiving Water
12	NE 60th ST & NE WINDERMERE RD	47.67108	-122.25295	Lake Washington
13	WINDERMERE PARK; NE AMBLESIDE RD & NE PENRITH RD	47.66382	-122.26522	Lake Washington
14	4218 55TH AVE NE	47.65925	-122.26799	Lake Washington
15	NE LAURELCREST LN & 51ST AVE NE	47.65523	-122.27129	Lake Washington
16	3005 WEBSTER POINT RD NE	47.64845	-122.27815	Lake Washington
18	3901 NE SURBER DR	47.65672	-122.28764	Union Bay
19	4501 27TH AVE NE	47.66103	-122.29782	Union Bay
20	E SHELBY ST & EAST PARK DR E	47.64696	-122.30074	Union Bay
22	2539 39TH AVE E	47.64246	-122.28285	Union Bay
24	E LEE ST & 42ND AVE E	47.63093	-122.27623	Lake Washington
25	E LEE ST & 42ND AVE E	47.63087	-122.27533	Lake Washington
27	1502 LAKE WASHINGTON BLVD	47.61492	-122.27996	Lake Washington
28	1500 LAKE WASHINGTON BLVD	47.61385	-122.28017	Lake Washington
29	LAKE WASHINGTON BLVD & FULLERTON AVE	47.60683	-122.28210	Lake Washington
30	LAKE WASHINGTON BLVD & E JEFFERSON ST	47.60577	-122.28262	Lake Washington
31	299 LAKESIDE AVE S	47.60013	-122.28498	Lake Washington
32	LAKESIDE AVE S & S DEARBORN ST	47.59572	-122.28621	Lake Washington
33	LAKESIDE AVE S & S CHARLES ST	47.59456	-122.28668	Lake Washington
34	LAKESIDE AVE S & S CHARLES ST	47.59451	-122.28666	Lake Washington
35	LAKESIDE AVE S & S MASSACHUSETTS ST	47.58756	-122.28456	Lake Washington
36	2310 LAKE WASHINGTON BLVD S	47.58261	-122.28612	Lake Washington
38	STANLEY SAYRES PARK; 3808 LAKE WASHINGTON BLVD S	47.57139	-122.27555	Lake Washington
40	LAKE WASHINGTON BLVD S & 49TH AVE S	47.56840	-122.27192	Lake Washington
41	LAKE WASHINGTON BLVD S & 50TH AVE S	47.56824	-122.26983	Lake Washington
42	4608 LAKE WASHINGTON BLVD S	47.56234	-122.26664	Lake Washington
43	LAKE WASHINGTON BLVD S & S ALASKA ST	47.56062	-122.26389	Lake Washington
44	SEWARD PARK; LAKE WASHINGTON BLVD S & S JUNEAU ST	47.54735	-122.25531	Lake Washington
45	MARTHA WASHINGTON PARK; 5711 S HOLLY ST	47.54150	-122.25961	Lake Washington
46	PRITCHARD ISLAND BEACH PARK; 8314 ISLAND DR S	47.52946	-122.26177	Lake Washington
47	BEER SHEVA PARK; SEWARD PARK AVE S & S HENDERSON ST	47.52329	-122.26287	Lake Washington
48	9722 RAINIER AVE S	47.51601	-122.25318	Lake Washington
49	9861 RAINIER AVE S	47.51341	-122.25029	Lake Washington
57	6701 SEAVIEW AVE NW	47.67843	-122.40693	Puget Sound - Central

Outfall No.	Street Address	Latitude	Longitude	Name of Receiving Water
59	5637 SEAVIEW AVE NW	47.67029	-122.40590	Salmon Bay
60	W CRAMER ST & 39TH AVE W	47.66782	-122.40740	Salmon Bay
61	2599 PERKINS LN W	47.64315	-122.41871	Elliott Bay
62	2599 PERKINS LN W	47.64200	-122.41774	Elliott Bay
64	1499 32ND AVE W	47.63158	-122.39925	Elliott Bay
68	PIER 91 AT 1523 W GARFIELD ST	47.63307	-122.37919	Elliott Bay
69	ALASKAN WAY & VINE ST	47.61321	-122.35232	Elliott Bay
70	ALASKAN WAY & UNIVERSITY ST	47.60581	-122.34053	Elliott Bay
71	ALASKAN WAY & MADISON ST	47.60370	-122.33858	Elliott Bay
72	199 ALASKAN WAY S	47.60090	-122.33671	Elliott Bay
78	SEACREST PARK; HARBOR AVE SW & FAIRMOUNT AVE SW	47.58752	-122.37723	Elliott Bay
80	DON ARMENI PARK; 112 HARBOR AVE SW	47.59327	-122.38206	Elliott Bay
83	ALKI BEACH PARK AT 1501 ALKI AVE SW	47.59125	-122.39415	Puget Sound - Central
85	3219 POINT PL SW	47.57676	-122.42008	Puget Sound - Central
88	5079 BEACH DR SW	47.55567	-122.40025	Puget Sound - Central
90	LOWMAN BEACH PARK; 7015 BEACH DR SW	47.53994	-122.39988	Puget Sound - Central
91	LINCOLN PARK; 8635 FAUNTLEROY WAY SW	47.52569	-122.39549	Puget Sound - Central
94	FAUNTLEROY FERRY TERMINAL; 4829 SW BARTON ST	47.52372	-122.39673	Puget Sound - Central
95	9279 FAUNTLEROY WAY SW	47.52050	-122.39578	Puget Sound - Central
99	TERMINAL 5 AT 3450 W MARGINAL WAY SW	47.57367	-122.36120	West Waterway - Duwamish River
107	3411 E MARGINAL WAY S	47.57367	-122.34269	East Waterway - Duwamish River
111	3 S OREGON ST	47.56314	-122.34531	Duwamish River
120	2770 WESTLAKE AVE N	47.64541	-122.34706	Lake Union
121	2046 WESTLAKE AVE N	47.63811	-122.34026	Lake Union
124	LAKE UNION PARK AT 800 WESTLAKE AVE N	47.62663	-122.33868	Lake Union
127	1099 FAIRVIEW AVE N	47.62965	-122.33123	Lake Union
129	TERRY PETTUS PARK; FAIRVIEW AVE E & E NEWTON ST	47.63681	-122.32950	Lake Union
130	LYNN ST PARK; FAIRVIEW AVE E & E LYNN ST	47.63959	-122.33037	Lake Union
131	2373 FAIRVIEW AVE E	47.64209	-122.33001	Lake Union
132	ROANOKE ST PARK; FAIRVIEW AVE E & E ROANOKE ST	47.64331	-122.32883	Lake Union
134	FAIRVIEW AVE E & E ALLISON ST	47.64924	-122.32501	Lake Union
135	3315 EASTLAKE AVE E	47.65208	-122.32092	Lake Union
136	3100 PORTAGE BAY PL E	47.64885	-122.31769	Lake Union
138	1209 E SHELBY ST	47.64693	-122.31604	Portage Bay
139	MONTLAKE PLAYFIELD AT 1618 E CALHOUN ST	47.64268	-122.31077	Portage Bay
140	W MONTLAKE PARK; WEST PARK DR E & E SHELBY ST	47.64693	-122.30952	Portage Bay
141	BRYANT SITE PARK AT 1215 NE BOAT ST	47.65086	-122.31563	Portage Bay
144	3790 LATONA AVE NE	47.65313	-122.32556	Lake Union
145	SUNNYSIDE AVE N BOAT RAMP; 2301 N NORTHLAKE WAY	47.65009	-122.33048	Lake Union
146	1430 N NORTHLAKE WAY	47.64722	-122.33962	Lake Union
147	N NORTHLAKE WAY & STONE WAY N	47.64801	-122.34285	Lake Union
148	4125 9TH AVE NW	47.65653	-122.36679	Lake Washington - Ship Canal
150	5301 24TH AVE NW	47.66677	-122.38801	Salmon Bay Waterway

Outfall No.	Street Address	Latitude	Longitude	Name of Receiving Water
151	5301 24TH AVE NW	47.66680	-122.38821	Salmon Bay Waterway
152	5301 28TH AVE NW	47.66728	-122.39284	Salmon Bay Waterway
161	MAGNUSON PARK AT 6451 65TH AVE NE	47.67713	-122.24909	Lake Washington
165	LAKE WASHINGTON BLVD S & S ALASKA ST	47.56061	-122.26401	Lake Washington
168	2311 SW MYRTLE ST	47.53920	-122.36241	Longfellow Creek
169	LONGFELLOW CREEK; 2450 SW THISTLE ST	47.52916	-122.36380	Longfellow Creek
170	2311 SW MYRTLE ST	47.53919	-122.36242	Longfellow Creek
171	CHINOOK BEACH PARK AT 9510 RAINIER AVE S	47.52062	-122.25972	Lake Washington
174	FREMONT CANAL PARK AT 151 NW CANAL ST	47.65276	-122.35980	Lake Washington - Ship Canal
175	FAIRVIEW AVE E & E GARFIELD ST	47.63389	-122.32722	Lake Union

S2. Nine minimum controls

In accordance with Chapter 173-245 WAC and US EPA CSO control policy (59 Fed. Reg. 18688), the Permittee must implement the following nine minimum controls (NMC) for CSOs. The Permittee must document compliance with the NMC in the Annual CSO Reports required in special condition S4.B.

The Permittee must comply with the following technology-based requirements for CSO systems. The Permittee must:

1. Implement proper operation and maintenance programs for the sewer system and all CSO outfalls to reduce the magnitude, frequency, and duration of CSOs. The Permittee shall implement the Operation and Maintenance Plan for the Combined Sewer System (CSS) that will include the elements listed below. The Permittee also shall update the plan to incorporate any changes to the system and shall operate and maintain the system according to the plan. The Permittee shall keep records to document the implementation of the plan.

    a. *Inspection and Maintenance of CSS.* The Permittee shall inspect and maintain all CSO structures, regulators, pump stations, and tide gates to ensure that they are in good working condition and adjusted to minimize CSOs and prevent tidal inflow. The Permittee shall inspect each CSO regulator structure at an appropriate frequency to ensure no dry weather overflows are occurring. The inspection shall include, but is not limited to, determining the extent of debris and grit buildup, and removing any debris or transfer of debris to the County system that may constrict flow, cause blockage, or result in a dry weather overflow. The Permittee shall keep records of the inspections. For CSO regulator structures that are inaccessible, the Permittee may perform a visual check of the overflow pipe to determine whether or not the CSO is occurring during dry weather flow conditions.

    b. *Provision for Trained Staff.* The Permittee shall ensure the availability of trained staff to carry out the operation, maintenance, repair, and testing functions required to ensure compliance with the terms and conditions of this permit.

    c. *Allocation of Funds for O&M.* The Permittee shall allocate adequate funds specifically for operation and maintenance activities.

2. Implement procedures that will maximize use of the collection system for wastewater storage that can be accommodated by the storage capacity of the collection system in order to reduce the magnitude, frequency, and duration of CSOs.

3. Review and modify pretreatment requirements to minimize the impacts of CSO discharges. Compliance with this control includes, but is not limited to, enforcing the Permittee's FOG ordinances and assisting King County in administering their Industrial Pretreatment Program within the Permittee's service area.

4. Operate the conveyance system to King County's interceptors and POTW/CSO treatment plants at the maximum transferable flow during wet weather flow conditions/events and deliver all flows to the treatment plants within the constraints of the capacity of the treatment plants. The Permittee shall keep records to document these actions.

5. Not discharge overflows from CSO outfalls except as a result of precipitation events; dry weather overflows from CSO outfalls are prohibited. The Permittee must report each dry weather overflow to the permitting authority as soon as it becomes aware of the overflow but no later than 24 hours after becoming aware of the dry weather overflow. When it detects a dry weather overflow, the Permittee must begin corrective action immediately and inspect the dry weather overflow each subsequent day until it has eliminated the overflow. The Permittee shall maintain records of the cause, corrective measures taken, estimate of the overflow volume and the dates of beginning and cessation of the dry weather overflow.

6. Implement measures to control solid and floatable materials in CSOs.

7. Implement a pollution prevention program focused on reducing the impact of CSOs on receiving waters. The pollution prevention program must include best management practices (BMPs) as an element to control pollutant sources that impact stormwater in combined basins. Ecology's *Stormwater Management Manual for Western Washington* (2012) contains appropriate BMPs for reference.

   Starting with the Annual CSO Report submitted in 2018, the Permittee must include a detailed description of the pollution prevention program, appropriate BMPs, and the legal authority and administrative procedures that the Permittee will use to ensure the program implementation. If the legal authority and/or administrative procedures are not in place, the Annual CSO Report must include a detailed description of the steps needed to establish such a program and the timeline for getting the program in place.

8. Continue to implement the public notification process to inform the citizens of when and where CSOs occur. The process must include (a) mechanism to alert persons of the occurrence of CSOs and (b) a system to determine the nature and duration of conditions that are potentially harmful for users of receiving waters due to CSOs.

9. Monitor CSO outfalls to characterize CSO impacts and the efficacy of CSO controls.

S3. Monitoring requirements

S3.A. CSO monitoring schedule

The Permittee must monitor all discharges from CSO outfalls listed in Special Condition S1 using the following monitoring schedule. The Permittee must use automatic flow monitoring equipment to collect the information required below. The Permittee must calibrate flow monitoring equipment according to requirements in S3.C. The Permittee must also conduct ambient water quality and sediment monitoring at select outfalls according to the schedule and protocols detailed in condition S6.C.

Parameter	Units	Minimum Sampling Frequency	Sample Type
(1) Discharge			
CSO discharge is defined as any untreated CSO which will exit or has exited the CSO outfall.			
Volume Discharged	Gallons	Per Event [c]	Measurement/Calculation [a,b]
Discharge Duration	Hours	Per Event [c]	Measurement
Storm Duration	Hours	Per Event [d]	Measurement
Precipitation	Inches	Per Event [c]	Measurement/Calculation [b]
(2) Post-Construction Monitoring Program			
The Permittee must monitor ambient water and sediment quality as Specified in Special Condition S6.C for select outfalls.			
Footnotes for CSO Monitoring:			
[a] Flow measurement must be continuous, except for brief lengths of time for calibration, for power failure, or for unanticipated equipment repair or maintenance. During periods of interrupted service, a calculation may be used to estimate the discharge volume. An explanation must be provided in the monthly DMR for all disruptions in flow measurement.			
[b] "Measurement/Calculation" means the total volume of the discharge or amount of precipitation event as estimated by direct measurement or indirectly by calculation (i.e. flow weirs, pressure transducers, tipping bucket). Precipitation must be measured by the nearest possible precipitation-measuring device and actively monitored during the period of interest.			
[c] "Per Event" means a unique flow event as defined in the *Permit Writer's Manual*, p. V-17. Ecology defines the minimum inter-event period (MIET) as 24 hours. A CSO event is considered to have ended only after at least 24 hours has elapsed since the last measured occurrence of an overflow.			
[d] Storm duration is the amount of total time when precipitation occurred that contributed to a discharge event. It is determined on a case-by-case basis.			

S3.B. Sampling and analytical procedures[1]

Samples and measurements taken to meet the requirements of this permit must represent the volume and nature of the monitored parameters. The Permittee must conduct representative sampling of any unusual discharge or discharge condition, including bypasses, upsets, and maintenance-related conditions that may affect effluent quality.

[1] The Permittee must conduct sampling and measurement only for volume discharged and precipitation, as noted in S3.A. The permit may require additional sampling and analyses in accordance with Sections S4.G, S4.H, and S6.C.

Sampling and analytical methods used to meet the monitoring requirements specified in this permit must conform to the latest revision of the *Guidelines Establishing Test Procedures for the Analysis of Pollutants* contained in 40 CFR Part 136 (or as applicable in 40 CFR subchapters N [Parts 400–471] or O [Parts 501-503]) unless otherwise specified in this permit . Ecology may only specify alternative methods for parameters without permit limits and for those parameters without an EPA approved test method in 40 CFR Part 136.

S3.C. Flow measurement, field measurement, and continuous monitoring

The Permittee must:

1. Select and use appropriate flow measurement, field measurement, and continuous monitoring devices and methods consistent with accepted scientific practices.
2. Install, calibrate, and maintain these devices to ensure the accuracy of the measurements is consistent with the accepted industry standard, the manufacturer's recommendation, and approved O&M manual procedures for the device and the wastestream.
3. Use field measurement devices as directed by the manufacturer and do not use reagents beyond their expiration dates.
4. Establish a calibration frequency for each device or instrument in the O&M manual that conforms to the frequency recommended by the manufacturer.
5. Maintain calibration records for at least three years.

S3.D. Laboratory accreditation

The Permittee must ensure that all monitoring data required by Ecology for permit specified parameters is prepared by a laboratory registered or accredited under the provisions of chapter 173-50 WAC, *Accreditation of Environmental Laboratories*. Flow, temperature, settleable solids, conductivity, pH, and internal process control parameters are exempt from this requirement.

S4. Reporting and recording requirements

The Permittee must monitor and report in accordance with the following conditions. Falsification of information submitted to Ecology is a violation of the terms and conditions of this permit.

S4.A. Monthly CSO discharge monitoring reports

The first monitoring period begins on the effective date of the permit (unless otherwise specified). The Permittee must:

1. Submit CSO monitoring results each month.
2. Summarize, report, and submit the electronic discharge monitoring report (DMR) form provided by Ecology within the Water Quality Permitting Portal for all event-based monitoring data obtained during each monitoring period. Include data for each of the parameters tabulated in Special Condition S2 and

as required by the form. Report a value for each day sampling occurred (unless specifically exempted in the permit) and for the summary values (when applicable) included on the electronic form.

To find out more information and to sign up for the Water Quality Permitting Portal go to: http://www.ecy.wa.gov/programs/wq/permits/paris/webdmr.html

1. Enter the "no discharge" reporting code for an entire eDMR or for a specific outfall, if the Permittee did not have a CSO during a given monitoring period.
2. For any automatic flow monitoring equipment that is installed but non-operational during the reporting month, the Permittee must identify the duration of the outage and whether or not it is likely that a discharge occurred during the non-operational period.
3. Ensure that DMRs are electronically submitted no later than the 28th day of the month following the completed monitoring period.

S4.B. Annual CSO reports

The Permittee must submit an annual CSO report to Ecology for review and approval by March 31st of each year. The annual CSO report must cover the previous calendar year. The report must comply with the requirements of WAC 173-245-090(1) and must include documentation of compliance with the Nine Minimum Controls for CSOs described in Special Condition S2. The Permittee must submit the reports electronically using the *Water Quality Permitting Portal – Permit Submittals* application. Each submittal must include all appropriate written report(s) in PDF format and all significant spreadsheets in Microsoft Excel format. The annual CSO report must include the following information:

1. A summary of the number and volume of untreated discharge events per outfall for that year.
2. A summary of the 20-year moving average[2] number of untreated discharge events per outfall, calculated once annually.
3. An event-based reporting form (provided by Ecology) for all CSO discharges for the reporting period, summarizing all data collected according to the monitoring schedule in Special Condition S2.
4. An explanation of the previous year's CSO reduction accomplishments, including a description of the progress made on all sewer system improvement projects and an assessment of the control status and effectiveness of these improvements.
5. A list of CSO reduction projects planned for the next year.

[2] The 20-year moving average shall be calculated by counting the number of untreated discharge events as of December 31 for each of the twenty years that immediately precede the year of the annual report, adding those numbers of untreated discharge events together, and then dividing that summation by twenty to arrive at the 20-year moving average.

6. A list of which permitted CSO outfalls that can be categorized as meeting the no more than one untreated discharge per year on a 20-year moving average performance standard. This annual assessment may be based on historical long-term discharge data, modeling, or other reasonable methods as approved by Ecology.

S4.C. Other permit submittals and schedules

The Permittee must use the *Water Quality Permitting Portal – Permit Submittals* application to submit all other written permit-required reports by the date specified in the permit.

When another permit condition requires submittal of a paper document or a report/file that cannot be accepted by the Water Quality Permitting Portal (i.e. video file for outfall inspection, documents with large file sizes or documents divided into several separate electronic files), the Permittee must ensure that the report/file is postmarked or received by Ecology no later than the dates specified by this permit. Send these reports/files to Ecology at:

NPDES Permit Manager
Department of Ecology
Northwest Regional Office
3190 160th Avenue SE
Bellevue, WA 98008-5452

S4.D. Records retention

The Permittee must retain records of all monitoring information for a minimum of three (3) years. Such information must include all calibration and maintenance records and all original recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit. The Permittee must extend this period of retention during the course of any unresolved litigation regarding the discharge of pollutants by the Permittee or when requested by Ecology.

S4.E. Recording of results

For each measurement or sample taken, the Permittee must record the following information:

1. The date, exact place, method, and time of sampling or measurement.
2. The individual who performed the sampling or measurement.
3. The dates the analyses were performed.
4. The individual who performed the analyses.
5. The analytical techniques or methods used.
6. The results of all analyses.

All laboratory reports providing data for sediments for organic and metal parameters must include the following information: sampling date, sample location, date of analysis, parameter name, CAS number, analytical

method/number, method detection limit (MDL), laboratory practical quantitation limit (PQL), reporting units, and concentration detected. Analytical results from samples sent to a contract laboratory must include information on the chain of custody, the analytical method, Quality Assurance (QA)/Quality Control (QC) results, and documentation of accreditation for the parameter.

S4.F. Additional monitoring by the Permittee

If the Permittee monitors any pollutant more frequently than required by Special Condition S3 of this permit, then the Permittee must include the results of such monitoring in the calculation and reporting of the data submitted in the Permittee's DMR unless otherwise specified by Special Condition S3.

S4.G. Reporting permit violations

The Permittee must take the following actions when it violates or is unable to comply with any permit condition:

1. Immediately take action to stop, contain, and cleanup unauthorized discharges or otherwise stop the noncompliance and correct the problem.
2. If applicable, immediately repeat sampling and analysis. Submit the results of any repeat sampling to Ecology within thirty (30) days of sampling.

a. Immediate reporting

The Permittee must *immediately* report to Ecology and Public Health of Seattle – King County at the numbers listed below all:

- Collection system overflows that discharge to surface water, stormwater conveyance systems, or into areas open to public access. This reporting requirement does not apply to permitted CSO discharges.
- Any other failures of the sewage system (pipe breaks, etc.) that may impact surface water or public health.

Northwest Regional Office	425-649-7000
Public Health of Seattle-King County	206-296-4932

Additionally, for any sanitary sewer overflow (SSO) that discharges to a municipal separate storm sewer system (MS4), the Permittee must notify the appropriate MS4 owner or operator. The Permittee must report Dry Weather Overflows and backups into buildings within 24 hours, as required in subparts 2.c and 2.d below.

If any of the situations noted above impact shellfish growing and harvesting areas, the Permittee must also immediately notify the Department of Health, Shellfish Program at the following numbers:

Department of Health, Shellfish Program	360-236-3330 (business hours) 360-789-8962 (after business hours)

b. Report within five days

The Permittee must also submit a written report within five business days of the time that the Permittee becomes aware of any reportable event under subparts 2.a, above. Submit the written report electronically using the *Water Quality Permitting Portal – Permit Submittals* application under the "As Needed, 5-day Written Follow-up" submittal schedule. Include the ERTS number in the name of the file uploaded for this submittal. If the letter covers multiple ERTS reports, include the incident date in the file name (example file names: "ERTS XXXXXX follow-up" or "follow-up-MMDDYYYY incidents").

The report must contain:

1. A description of the noncompliance and its cause.
2. The period of noncompliance, including exact dates and times.
3. The estimated time the Permittee expects the noncompliance to continue if not yet corrected.
4. Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance.
5. If the noncompliance involves an overflow prior to the treatment works, an estimate of the quantity (in gallons) of untreated overflow.

c. Reporting – Dry weather overflows

Dry weather overflows (i.e. overflows from permitted CSO outfalls during periods of non-precipitation) are prohibited. The Permittee must report all dry weather overflows from CSO outfalls to Ecology at the ERTS phone number listed in subpart 2.a above as soon as the Permittee becomes aware of the dry weather overflow, but no later than 24 hours after becoming aware of the overflow. Submit a detailed, written report to Ecology within five (5) business days as required under subpart 2.b above, unless requested earlier by Ecology.

Corrective actions shall commence immediately and continue until the dry weather overflow has been eliminated.

d. Reporting – Sewer backups into buildings

The Permittee must report sewer backups into buildings (basements, low-lying first floors, garages, and toilets regardless of floor) to Ecology at the ERTS phone number listed in subpart 2.b above or via the online ERTS reporting form within 24 hours of becoming aware of the backup. The Permittee must submit a spreadsheet once per quarter that provides updated information on each backup reported during the quarter, if any occur. Submit the spreadsheet electronically using the *Water Quality Permitting Portal – Permit Submittals* application under the "As Needed, Basement Backup Follow-up" submittal schedule. The spreadsheet file

name must identify the quarter and year for the report (example: "basement-2016Q1"). The Permittee must submit the report no later than the 15th day of the month following each reporting period. Quarterly reporting periods are January through March, April through June, July through September, and October through December.

e. All other permit violation reporting

The Permittee must report all permit violations, which do not require immediate or within 24 hours reporting, when it submits monitoring reports for S4.A ("Reporting"). Electronically attach written reports of other violations to the DMR for the reporting period in which the violation occurred. The reports must contain the information listed in subpart 2.b, above. Compliance with these requirements does not relieve the Permittee from responsibility to maintain continuous compliance with the terms and conditions of this permit or the resulting liability for failure to comply.

S4.H. Other reporting

a. Spills of oil or hazardous materials

The Permittee must report a spill of oil or hazardous materials in accordance with the requirements of RCW 90.56.280 and Chapter 173-303-145. You can obtain further instructions at the following website: http://www.ecy.wa.gov/programs/spills/other/reportaspill.htm.

b. Failure to submit relevant or correct facts

Where the Permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to Ecology, it must submit such facts or information promptly.

S4.I. Maintaining a copy of this permit

The Permittee must keep a copy of this permit at their office and make it available upon request to Ecology inspectors.

S5. Operation and maintenance

The Permittee must at all times properly operate and maintain all facilities and systems of conveyance and control (and related appurtenances) that are installed to achieve compliance with the terms and conditions of this permit. This provision of the permit requires the Permittee to operate backup or auxiliary facilities or similar systems only when the operation is necessary to achieve compliance with the conditions of this permit.

S5.A. Operation and maintenance program

The Permittee must:

1. Institute an adequate operation and maintenance program for the entire sewage system.

2. Keep maintenance records on all major electrical and mechanical components of the combined sewage system, including its pumping stations. Such records must clearly specify the frequency and type of maintenance recommended by the manufacturer or a site-specific reliability-centered maintenance analysis and must show the frequency and type of maintenance performed.
3. Make maintenance records available for inspection at all times.

S5.B. Short-term reduction

If a Permittee contemplates a reduction in the level of operation or monitoring that would cause a violation on a short-term basis for any reason, and such reduction cannot be avoided, the Permittee must:

1. Give written notification to Ecology, if possible, thirty (30) days prior to such activities.
2. Detail the reasons for, length of time of, and the potential effects of the reduced level of operation or monitoring.

This notification does not relieve the Permittee of its obligations under this permit. The Permittee must attempt to minimize the duration of short-term reductions and must attempt to restrict short-term reductions to dry weather periods.

S5.C. Electrical power failure

The Permittee must ensure that adequate safeguards prevent the discharge of untreated wastes or wastes not conveyed in accordance with the requirements of this permit during electrical power failure at sewage lift stations. Adequate safeguards include, but are not limited to, alternate power sources, standby generator(s), or retention of inadequately treated wastes, bypass pumping (for example, pumping of combined sewer flows with a means other than the pump station's pumps), or other equally protective means.

S5.D. Prevent connection of inflow

The Permittee must strictly enforce its sewer ordinances and not allow the connection of inflow sources (roof drains, foundation drains, etc.) to the sanitary sewer system.

S5.E. Operations and maintenance (O&M) manual

1. O&M manual submittal and requirements

   The Permittee must:

   a. Review operations and maintenance manuals (O&M manuals) for facilities at least annually and update it as needed.

   b. Ensure operations personnel have access to and follow the instructions and procedures in the O&M manuals.

S6. Requirements for controlled CSO outfalls

S6.A. CSOs identified as controlled

Based on information presented in the City of Seattle's *2014 CSO Annual Report*, the CSO outfalls listed below meet the requirement of "greatest reasonable reduction" as defined in chapter WAC 173-245-020(22). Frequency of overflow events at these CSO outfalls, as a result of precipitation events, must continue to meet the performance standard.

Outfall No.	Street Address	Latitude	Longitude	Name of Receiving Water
12	NE 60th ST & NE WINDERMERE RD	47.67108	-122.25295	Lake Washington
14	4218 55TH AVE NE	47.65925	-122.26799	Lake Washington
16	3005 WEBSTER POINT RD NE	47.64845	-122.27815	Lake Washington
19	4501 27TH AVE NE	47.66103	-122.29782	Union Bay
24	E LEE ST & 42ND AVE E	47.63093	-122.27623	Lake Washington
25	E LEE ST & 42ND AVE E	47.63087	-122.27533	Lake Washington
27	1502 LAKE WASHINGTON BLVD	47.61492	-122.27996	Lake Washington
33	LAKESIDE AVE S & S CHARLES ST	47.59456	-122.28668	Lake Washington
38	STANLEY SAYRES PARK; 3808 LAKE WASHINGTON BLVD S	47.57139	-122.27555	Lake Washington
48	9722 RAINIER AVE S	47.51601	-122.25318	Lake Washington
57	6701 SEAVIEW AVE NW	47.67843	-122.40693	Puget Sound - Central
59	5637 SEAVIEW AVE NW	47.67029	-122.4059	Salmon Bay
61	2599 PERKINS LN W	47.64315	-122.41871	Elliott Bay
62	2599 PERKINS LN W	47.642	-122.41774	Elliott Bay
64	1499 32ND AVE W	47.63158	-122.39925	Elliott Bay
68	PIER 91 AT 1523 W GARFIELD ST	47.63307	-122.37919	Elliott Bay
70	ALASKAN WAY & UNIVERSITY ST	47.60581	-122.34053	Elliott Bay
72	199 ALASKAN WAY S	47.6009	-122.33671	Elliott Bay
78	SEACREST PARK; HARBOR AVE SW & FAIRMOUNT AVE SW	47.58752	-122.37723	Elliott Bay
80	DON ARMENI PARK; 112 HARBOR AVE SW	47.59327	-122.38206	Elliott Bay
83	ALKI BEACH PARK AT 1501 ALKI AVE SW	47.59125	-122.39415	Puget Sound - Central
85	3219 POINT PL SW	47.57676	-122.42008	Puget Sound - Central
88	5079 BEACH DR SW	47.55567	-122.40025	Puget Sound - Central
90	LOWMAN BEACH PARK; 7015 BEACH DR SW	47.53994	-122.39988	Puget Sound - Central
91	LINCOLN PARK; 8635 FAUNTLEROY WAY SW	47.52569	-122.39549	Puget Sound - Central
94	FAUNTLEROY FERRY TERMINAL; 4829 SW BARTON ST	47.52372	-122.39673	Puget Sound - Central
120	2770 WESTLAKE AVE N	47.64541	-122.34706	Lake Union
121	2046 WESTLAKE AVE N	47.63811	-122.34026	Lake Union
124	LAKE UNION PARK AT 800 WESTLAKE AVE N	47.62663	-122.33868	Lake Union
127	1099 FAIRVIEW AVE N	47.62965	-122.33123	Lake Union
129	TERRY PETTUS PARK; FAIRVIEW AVE E & E NEWTON ST	47.63681	-122.3295	Lake Union
130	LYNN ST PARK; FAIRVIEW AVE E & E LYNN ST	47.63959	-122.33037	Lake Union
131	2373 FAIRVIEW AVE E	47.64209	-122.33001	Lake Union
132	ROANOKE ST PARK; FAIRVIEW AVE E & E ROANOKE ST	47.64331	-122.32883	Lake Union
134	FAIRVIEW AVE E & E ALLISON ST	47.64924	-122.32501	Lake Union
135	3315 EASTLAKE AVE E	47.65208	-122.32092	Lake Union
136	3100 PORTAGE BAY PL E	47.64885	-122.31769	Lake Union

Outfall No.	Street Address	Latitude	Longitude	Name of Receiving Water
141	BRYANT SITE PARK AT 1215 NE BOAT ST	47.65086	-122.31563	Portage Bay
144	3790 LATONA AVE NE	47.65313	-122.32556	Lake Union
145	SUNNYSIDE AVE N BOAT RAMP; 2301 N NORTHLAKE WAY	47.65009	-122.33048	Lake Union
146	1430 N NORTHLAKE WAY	47.64722	-122.33962	Lake Union
148	4125 9TH AVE NW	47.65653	-122.36679	Lake Washington - Ship Canal
161	MAGNUSON PARK AT 6451 65TH AVE NE	47.67713	-122.24909	Lake Washington
170	2311 SW MYRTLE ST	47.53919	-122.36242	Longfellow Creek
175	FAIRVIEW AVE E & E GARFIELD ST	47.63389	-122.32722	Lake Union

S6.B. Performance standard for controlled CSOs

The performance standard for each controlled CSO outfall is not more than one discharge event per outfall per year on average, due to precipitation. Ecology evaluates compliance with the performance standard annually based on a 20-year moving averaging period. The Permittee must report the running 20-year average number of overflow events per year during this permit term from these CSO outfalls in the CSO Annual report required in Section S4.B.

S6.C. Post-construction monitoring program

The Permittee must continue to implement a post-construction compliance monitoring program to verify the effectiveness of CSO controls and to demonstrate that the controls comply with water quality standards and protect designated uses for the receiving water. The Permittee must follow the conditionally approved City of Seattle *2015 Post-Construction Monitoring Program* (2015 Plan) and submit to Ecology for review and approval any proposed changes to this plan. The plan proposes monitoring of flow at all outfalls and ambient monitoring near select outfalls.

The 2015 plan requires monitoring of ambient water quality and sediment quality at certain surrogate outfalls. Ecology considers the surrogate outfalls as representative of nearby outfalls in the same receiving water body. According to the 2015 plan and subsequent supplemental compliance plans, the Permittee must conduct ambient water quality sampling at the following outfalls: Magnolia (#68) and Barton (#95). In addition, the Permittee must sample sediments in accordance with the 2015 plan, subsequent supplemental compliance plans, the schedules in S6.C.2 and S6.C.3 below, and respective SAPs. Post-construction monitoring of sediments is required with the completion of CSO projects once the CSO has been deemed controlled unless sufficient recent data exists that shows there are no SMS exceedances. An exception is made if an area-wide cleanup project is planned with sediment sampling scheduled at cleanup project completion.

The following sections describe protocols the Permittee must follow to prepare for and to report the findings of ambient monitoring at each surrogate outfall. The Permittee must submit all monitoring plans and reports electronically (preferably as a PDF) using the *Water Quality Permitting Portal – Permit Submittals* application.

1. Post-Construction Monitoring Program Quality Assurance Project Plans

Prior to conducting ambient water quality compliance monitoring program, the Permittee must develop a quality assurance project plan (QAPP) that details the monitoring protocols the Permittee will follow to determine overflow frequency and volume, to assess compliance with the narrative water quality standards and to determine potential impacts to sediments (see conditions S6.C.2 and 3 for sediment monitoring requirements). The Permittee must submit PCMP-QAPPs to Ecology for review and approval according to the following schedule. The Permittee may submit the required QAPP and the sediment sampling analysis plan described below as a single document.

Outfall	Due Date
95	May 31, 2016
68	June 30, 2016
QAPP not required for outfall 13; Permittee submitted plan in August 2015.	

2. Sediment Sampling and Analysis Plans

In conjunction with the QAPP required above, the Permittee must submit a Sediment Sampling and Analysis Plan (SAP) to Ecology for review and approval for each outfall. The Permittee must submit the SAP for sediment monitoring at least eight months prior to sediment testing. The purpose of the plan is to describe how the Permittee will characterize sediment quality (the nature and extent of chemical contamination and biological toxicity) in the vicinity of the discharge locations. The sediment SAP must follow the guidance provided in the *Sediment Cleanup User's Manual II* (Ecology, 2015). The Permittee must list method detection limits in the plan.

3. Sediment Sampling Data Reports

Following Ecology approval of the Sediment Sampling and Analysis Plan, the Permittee must collect and analyze sediments for controlled CSO outfall 95. The Permittee must electronically submit to Ecology a Sediment Data Report containing the results of the sediment sampling and analysis according to the following schedule. The Sediment Data Report must conform to the approved sediment sampling and analysis plan.

Outfall	Due Date
95	July 31, 2019

In addition to a Sediment Data Report, the Permittee must submit the sediment chemical and biological data (if applicable) to Ecology's EIM database (http://www.ecy.wa.gov/eim/).The Permittee must also use Ecology's MyEIM tools to confirm the accuracy of the submitted data (http://www.ecy.wa.gov/eim/MyEIM.htm).

4. Post-Construction Monitoring Data Report

The Permittee must submit to Ecology by October 30, 2020 a post-construction monitoring summary data report that provides validation that each CSO outfall listed as controlled in Condition S6.A, as well as those brought under control during the permit term, complies with the performance requirements. It must also summarize monitoring results relative to state water and sediment quality standards. The report must conform to the approved *CSO Post-Construction Monitoring Program*, subsequent supplemental compliance plans, and associated QAPPs.

If sampling near any surrogate outfalls reveal exceedances of SMS, the report must identify whether the Permittee knows of area-wide clean-up activities in the vicinity, including any clean-up actions planned or that have been performed in the past. As part of the identification of existing clean-up activities, the report must identify the chemicals targeted by the cleanup activity, discuss the availability of any pre- and post-cleanup monitoring results, show the clean-up project schedule and post-project monitoring schedule, and provide a list of parties involved in the clean-up project.

The Permittee may limit the scope of post construction monitoring data reported for outfall 68 to water quality data collected through flow volume, frequency and duration monitoring and field observations. The Permittee must also include sediment monitoring data collected by the Port of Seattle in the vicinity of outfall 68 if data becomes available by April 30, 2020.

S7. CSO reduction plan amendments and engineering documents

S7.A. Combined sewer overflow reduction plan amendment

The Permittee must submit to Ecology an amendment to its *2015 Plan to Protect Seattle's Waterways – Long Term Control Plan* (also referred to as a CSO Reduction Plan) for review and approval by October 30, 2020. The amendment must comply with the requirements of WAC 173-245-090(2)(a) and (c).

1. The CSO Reduction Plan Amendment must provide an assessment of completed control projects and identify which of the permitted CSO outfalls can be categorized as meeting the Performance Standard for Controlled CSOs as defined in Condition S6.B. The Permittee must determine the controlled status based on historical long-term discharge data (up to 20 years – past and present data), modeling, and/or other reasonable methods as approved by Ecology.
2. For outfalls that do not meet the Performance Standard for Controlled CSOs as defined in Condition S6.B, the Permittee must include in the amendment a list of projects from the approved Long-Term Control Plan that the Permittee will complete during the next five-year permit term.
3. The CSO Control Plan Amendment may not propose changes to the project list or implementation schedule in the approved Long-Term Control Plan unless modified according to allowances in the 2013 Consent Decree for Civil Action No. 2:13-cv-00678.

S7.B. Engineering reports and plans and specifications for CSO storage and pump station projects

The Permittee must submit to Ecology an engineering report for each specific CSO reduction construction project. Engineering documents associated with each CSO reduction project must meet the requirements of WAC 173-240-060, "Engineering Report," and be approved by Ecology prior to construction.

The report must:

1. Specify any contracts, ordinances, methods of financing, or any other arrangements necessary to achieve this objective.
2. Identify the potential hydraulic impact(s) of the project on downstream City-owned wastewater conveyance facilities as well as any impact(s) to King County's conveyance and treatment systems.
3. Describe how a project will achieve the performance standard and explicitly state the expected frequency of overflow event(s) per year per associated outfall after the CSO reduction construction project has been completed.

For each specific CSO reduction construction project, the Permittee must prepare and submit approvable plans and specifications to Ecology for review and approval in accordance with Chapter 173-240-070 WAC. Plans and specifications must be approved prior to construction.

Prior to the start of construction, the Permittee must submit to Ecology a construction quality assurance plan as required by Chapter 173-240-075 WAC.

S8. Compliance schedule

In order to achieve the greatest reasonable reduction of combined sewer overflows at the earliest possible date, the Permittee must complete the elements of the approved Long Term Control Plan identified in the table below by the specified dates.

A. West Ship Canal Tunnel – Outfalls 147, 150, 151, 152, and 174		
1.	Submit draft engineering report for the West Ship Canal Tunnel project for review and comment	March 31, 2017
2.	Submit a final engineering report for the West Ship Canal Tunnel project for approval	December 31, 2017
3.	Submit 90% draft plans and specifications for the West Ship Canal Tunnel project for review and comment	March 31, 2020
4.	Submit final plans and specifications for the West Ship Canal Tunnel project for approval	December 31, 2020
Permittee must include planning and design for rehabilitation of outfall 151 as part of the West Ship Canal Tunnel Project.		

B. Central Waterfront Storage – Outfall 69		
1.	Submit a draft engineering report for the Central Waterfront Storage project for review and comment	June 30, 2019
2.	Submit a final engineering report for the Central Waterfront Storage Project for approval	December 31, 2019

C. Sewer System Improvement Projects		
1.	Submit a report describing the scope of work for the Leschi Sewer System Improvement Projects (outfalls 28, 29, 31, 32, and 36).	March 31, 2017
2.	Complete all Leschi Sewer System Improvement projects (outfalls 28, 29, 31, 32, and 36).	December 29, 2017
3.	Submit a report describing the scope of work for the North Union Bay Sewer System Improvement Projects (outfall 18).	March 30, 2018
4.	Complete all North Union Bay Sewer System Improvement projects (outfall 18).	December 31, 2018
5.	Submit a report describing the scope of work for the Delridge Sewer System Improvement Projects (outfall 99).	March 29, 2019
6.	Complete all Delridge Sewer System Improvement projects (outfall 99).	December 31, 2019
7.	Submit a report describing the scope of work for the Montlake Sewer System Improvement Projects (outfalls 20, and 139/140).	March 31, 2020
8.	Submit a report describing the scope of work for the East Waterway Sewer System Improvement Projects (outfall 107).	March 31, 2020
9.	Submit a report describing the scope of work for the Magnolia Sewer System Improvement Projects (outfall 60).	March 31, 2020
10..	Submit a report describing the scope of work for the Portage Bay Sewer System Improvement Projects (outfall 138).	March 31, 2020
11.	Complete all Montlake Sewer System Improvement Projects (outfalls 20, and 139/140).	December 31, 2020
12..	Complete all East Waterway Sewer System Improvement projects (outfall 107).	December 31, 2020
13.	Complete all Magnolia Sewer System Improvement Projects (outfall 60).	December 31, 2020
14.	Complete all Portage Bay Sewer System Improvement Projects (outfall 138).	December 31, 2020

D. Integrated Plan Projects		
1.	NDS Partnering – Begin Construction	July 17, 2019
2.	Street Sweeping Expansion Arterials – Complete Post-Construction Monitoring	September 30, 2019

E. Outfall Rehabilitation Projects		
1.	Complete replacement of trash rack on Outfall 99	March 29, 2019
2.	Complete repair of bedding and foundation material surrounding land section and bulkhead of outfall 171	December 31, 2019
3.	Replace land section of outfall 174	March 31, 2017

S9. Outfall rehabilitation plan and inventory

The Permittee must conduct an underwater analysis of five (5) previously uninspected outfalls to assess their physical condition and to determine the need for rehabilitation. By October 30, 2020, the Permittee must submit to Ecology for review and approval an outfall rehabilitation plan that describes outfalls to be repaired or replaced during the next permit cycle.

In addition, the Permittee must complete a desktop evaluation of all CSO outfalls to determine the current number of discharge points from their system. The evaluation must identify outfalls located in close proximity to each other that share a hydraulic connection to a common control structure. The Permittee must include the results of this evaluation in the outfall rehabilitation report required above.

S10. Application for permit renewal

The Permittee must submit an application for renewal of this permit by October 30, 2020.

General Conditions

G1. Signatory requirements

1. All applications, reports, or information submitted to Ecology must be signed and certified.

   a. In the case of corporations, by a responsible corporate officer. For the purpose of this section, a responsible corporate officer means:

      - A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation, or
      - The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

   b. In the case of a partnership, by a general partner.

   c. In the case of sole proprietorship, by the proprietor.

   d. In the case of a municipal, state, or other public facility, by either a principal executive officer or ranking elected official.

   Applications for permits for domestic wastewater facilities that are either owned or operated by, or under contract to, a public entity shall be submitted by the public entity.

2. All reports required by this permit and other information requested by Ecology must be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:

   a. The authorization is made in writing by a person described above and submitted to Ecology.

   b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)

3. Changes to authorization. If an authorization under paragraph G1.2, above, is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of paragraph G1.2, above, must be submitted to Ecology prior to or together with any reports, information, or applications to be signed by an authorized representative.

4. Certification. Any person signing a document under this section must make the following certification:

   "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 gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

G2. Right of inspection and entry

The Permittee must allow an authorized representative of Ecology, upon the presentation of credentials and such other documents as may be required by law:

1. To enter upon the premises where a discharge is located or where any records must be kept under the terms and conditions of this permit.
2. To have access to and copy, at reasonable times and at reasonable cost, any records required to be kept under the terms and conditions of this permit.
3. To inspect, at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, methods, or operations regulated or required under this permit.
4. To sample or monitor, at reasonable times, any substances or parameters at any location for purposes of assuring permit compliance or as otherwise authorized by the Clean Water Act.

G3. Permit actions

This permit may be modified, revoked and reissued, or terminated either at the request of any interested person (including the Permittee) or upon Ecology's initiative. However, the permit may only be modified, revoked and reissued, or terminated for the reasons specified in 40 CFR 122.62, 40 CFR 122.64 or WAC 173-220-150 according to the procedures of 40 CFR 124.5.

1. The following are causes for terminating this permit during its term, or for denying a permit renewal application:
   a. Violation of any permit term or condition.
   b. Obtaining a permit by misrepresentation or failure to disclose all relevant facts.
   c. A material change in quantity or type of waste disposal.
   d. A determination that the permitted activity endangers human health or the environment, or contributes to water quality standards violations and can only be regulated to acceptable levels by permit modification or termination.
   e. A change in any condition that requires either a temporary or permanent reduction, or elimination of any discharge or sludge use or disposal practice controlled by the permit.

f. Nonpayment of fees assessed pursuant to RCW 90.48.465.

g. Failure or refusal of the Permittee to allow entry as required in RCW 90.48.090.

2. The following are causes for modification but not revocation and reissuance except when the Permittee requests or agrees:

   a. A material change in the condition of the waters of the state.

   b. New information not available at the time of permit issuance that would have justified the application of different permit conditions.

   c. Material and substantial alterations or additions to the permitted facility or activities which occurred after this permit issuance.

   d. Promulgation of new or amended standards or regulations having a direct bearing upon permit conditions, or requiring permit revision.

   e. The Permittee has requested a modification based on other rationale meeting the criteria of 40 CFR Part 122.62.

   f. Ecology has determined that good cause exists for modification of a compliance schedule, and the modification will not violate statutory deadlines.

   g. Incorporation of an approved local pretreatment program into a municipality's permit.

3. The following are causes for modification or alternatively revocation and reissuance:

   a. When cause exists for termination for reasons listed in 1.a through 1.g of this section, and Ecology determines that modification or revocation and reissuance is appropriate.

   b. When Ecology has received notification of a proposed transfer of the permit. A permit may also be modified to reflect a transfer after the effective date of an automatic transfer (General Condition G7) but will not be revoked and reissued after the effective date of the transfer except upon the request of the new Permittee.

G4. Reporting planned changes

The Permittee must, as soon as possible, but no later than sixty (60) days prior to the proposed changes, give notice to Ecology of planned physical alterations or additions to the permitted facility, production increases, or process modification which will result in:

1. The permitted facility being determined to be a new source pursuant to 40 CFR 122.29(b).

2. A significant change in the nature or an increase in quantity of pollutants discharged.

3. A significant change in the Permittee's sludge use or disposal practices. Following such notice, and the submittal of a new application or supplement to the existing application, along with required engineering plans and reports, this permit may be modified, or revoked and reissued pursuant to 40 CFR 122.62(a) to specify and limit any pollutants not previously limited. Until such modification is effective, any new or increased discharge in excess of permit limits or not specifically authorized by this permit constitutes a violation.

G5. Plan review required

Prior to constructing or modifying any wastewater control facilities, an engineering report and detailed plans and specifications must be submitted to Ecology for approval in accordance with chapter 173-240 WAC. Engineering reports, plans, and specifications must be submitted at least sixty (60) days prior to the planned start of construction unless a shorter time is approved by Ecology. Facilities must be constructed and operated in accordance with the approved plans.

G6. Compliance with other laws and statutes

Nothing in this permit excuses the Permittee from compliance with any applicable federal, state, or local statutes, ordinances, or regulations.

G7. Transfer of this permit

In the event of any change in control or ownership of facilities from which the authorized discharge emanate, the Permittee must notify the succeeding owner or controller of the existence of this permit by letter, a copy of which must be forwarded to Ecology.

1. Transfers by Modification

   Except as provided in paragraph (2) below, this permit may be transferred by the Permittee to a new owner or operator only if this permit has been modified or revoked and reissued under 40 CFR 122.62(b)(2), or a minor modification made under 40 CFR 122.63(d), to identify the new Permittee and incorporate such other requirements as may be necessary under the Clean Water Act.

2. Automatic Transfers

   This permit may be automatically transferred to a new Permittee if:

   a. The Permittee notifies Ecology at least thirty (30) days in advance of the proposed transfer date.

   b. The notice includes a written agreement between the existing and new Permittees containing a specific date transfer of permit responsibility, coverage, and liability between them.

   c. Ecology does not notify the existing Permittee and the proposed new Permittee of its intent to modify or revoke and reissue this permit. A modification under this subparagraph may also be minor modification under 40 CFR 122.63. If this notice is not received, the transfer is effective on the date specified in the written agreement.

G8. Reduced production for compliance

The Permittee, in order to maintain compliance with its permit, must control production and/or all discharges upon reduction, loss, failure, or bypass of the treatment facility until the facility is restored or an alternative method of treatment is provided. This requirement applies in the situation where, among other things, the primary source of power of the treatment facility is reduced, lost, or fails.

G9. Removed substances

Collected screenings, grit, solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters must not be resuspended or reintroduced to the final effluent stream for discharge to state waters.

G10. Duty to provide information

The Permittee must submit to Ecology, within a reasonable time, all information which Ecology may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit or to determine compliance with this permit. The Permittee must also submit to Ecology upon request, copies of records required to be kept by this permit.

G11. Other requirements of 40 CFR

All other requirements of 40 CFR 122.41 and 122.42 are incorporated in this permit by reference.

G12. Additional monitoring

Ecology may establish specific monitoring requirements in addition to those contained in this permit by administrative order or permit modification.

G13. Payment of fees

The Permittee must submit payment of fees associated with this permit as assessed by Ecology.

G14. Penalties for violating permit conditions

Any person who is found guilty of willfully violating the terms and conditions of this permit is deemed guilty of a crime, and upon conviction thereof shall be punished by a fine of up to ten thousand dollars ($10,000) and costs of prosecution, or by imprisonment in the discretion of the court. Each day upon which a willful violation occurs may be deemed a separate and additional violation.

Any person who violates the terms and conditions of a waste discharge permit may incur, in addition to any other penalty as provided by law, a civil penalty in the amount of up to ten thousand dollars ($10,000) for every such violation. Each and every such violation is a separate and distinct offense, and in case of a continuing violation, every day's continuance is deemed to be a separate and distinct violation.

G15. Upset

Definition – “Upset” means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based permit effluent limits because of factors beyond the reasonable control of the Permittee. An upset does not include noncompliance to the extent caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation.

An upset constitutes an affirmative defense to an action brought for noncompliance with such technology-based permit effluent limits if the requirements of the following paragraph are met.

A Permittee who wishes to establish the affirmative defense of upset must demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

1. An upset occurred and that the Permittee can identify the cause(s) of the upset.
2. The permitted facility was being properly operated at the time of the upset.
3. The Permittee submitted notice of the upset as required in Special Condition S4.G.
4. The Permittee complied with any remedial measures required under S4.G of this permit.

In any enforcement action the Permittee seeking to establish the occurrence of an upset has the burden of proof.

G16. Property rights

This permit does not convey any property rights of any sort, or any exclusive privilege.

G17. Duty to comply

The Permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Clean Water Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or denial of a permit renewal application.

G18. Toxic pollutants

The Permittee must comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish those standards or prohibitions, even if this permit has not yet been modified to incorporate the requirement.

G19. Penalties for tampering

The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than two (2) years per violation, or by both. If a conviction of a person is for a violation committed after a first conviction of such person under this condition, punishment shall be a fine of not more than $20,000 per day of violation, or by imprisonment of not more than four (4) years, or by both.

G20. Compliance schedules

Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit must be submitted no later than fourteen (14) days following each schedule date.

G21. Service agreement review

The Permittee must submit to Ecology any proposed service agreements and proposed revisions or updates to existing agreements for the operation of any wastewater treatment facility covered by this permit. The review is to ensure consistency with chapters 90.46 and 90.48 RCW as required by RCW 70.150.040(9). In the event that Ecology does not comment within a thirty-day (30) period, the Permittee may assume consistency and proceed with the service agreement or the revised/updated service agreement.

APPENDIX A

LIST OF POLLUTANTS WITH ANALYTICAL METHODS, DETECTION LIMITS AND QUANTITATION LEVELS

The Permittee must use the specified analytical methods, detection limits (DLs) and quantitation levels (QLs) in the following table for permit and application required monitoring unless:

- Another permit condition specifies other methods, detection levels, or quantitation levels.
- The method used produces measurable results in the sample and EPA has listed it as an EPA-approved method in 40 CFR Part 136.

If the Permittee uses an alternative method, not specified in the permit and as allowed above, it must report the test method, DL, and QL on the discharge monitoring report or in the required report.

If the Permittee is unable to obtain the required DL and QL in its effluent due to matrix effects, the Permittee must submit a matrix-specific detection limit (MDL) and a quantitation limit (QL) to Ecology with appropriate laboratory documentation.

When the permit requires the Permittee to measure the base neutral compounds in the list of priority pollutants, it must measure all of the base neutral pollutants listed in the table below. The list includes EPA required base neutral priority pollutants and several additional polynuclear aromatic hydrocarbons (PAHs). The Water Quality Program added several PAHs to the list of base neutrals below from Ecology's Persistent Bioaccumulative Toxics (PBT) List. It only added those PBT parameters of interest to Appendix A that did not increase the overall cost of analysis unreasonably.

Ecology added this appendix to the permit in order to reduce the number of analytical "non-detects" in permit-required monitoring and to measure effluent concentrations near or below criteria values where possible at a reasonable cost.

The lists below include conventional pollutants (as defined in CWA section 502(6) and 40 CFR Part 122.), toxic or priority pollutants as defined in CWA section 307(a)(1) and listed in 40 CFR Part 122 Appendix D, 40 CFR Part 401.15 and 40 CFR Part 423 Appendix A), and nonconventionals. 40 CFR Part 122 Appendix D (Table V) also identifies toxic pollutants and hazardous substances which are required to be reported by dischargers if expected to be present. This permit appendix A list does not include those parameters.

CONVENTIONAL POLLUTANTS

Pollutant	**CAS Number (if available)**	**Recommended Analytical Protocol**	**Detection (DL)[1] *µg/L unless specified***	**Quantitation Level (QL) [2] *µg/L unless specified***
Biochemical Oxygen Demand		SM5210-B		2 mg/L
Biochemical Oxygen Demand, Soluble		SM5210-B [3]		2 mg/L
Fecal Coliform		SM 9221E,9222	N/A	Specified in method - sample aliquot dependent
Oil and Grease (HEM) (Hexane Extractable Material)		1664 A or B	1,400	5,000
pH		SM4500-H^+ B	N/A	N/A
Total Suspended Solids		SM2540-D		5 mg/L

NONCONVENTIONAL POLLUTANTS				
Pollutant & CAS No. (if available)	**CAS Number (if available)**	**Recommended Analytical Protocol**	**Detection (DL)[1] µg/L unless specified**	**Quantitation Level (QL)[2] µg/L unless specified**
Alkalinity, Total		SM2320-B		5 mg/L as CaCO3
Aluminum, Total	7429-90-5	200.8	2.0	10
Ammonia, Total (as N)		SM4500-NH3-B and C/D/E/G/H		20
Barium Total	7440-39-3	200.8	0.5	2.0
BTEX (benzene +toluene + ethylbenzene + m,o,p xylenes)		EPA SW 846 8021/8260	1	2
Boron, Total	7440-42-8	200.8	2.0	10.0
Chemical Oxygen Demand		SM5220-D		10 mg/L
Chloride		SM4500-Cl B/C/D/E and SM4110 B		Sample and limit dependent
Chlorine, Total Residual		SM4500 Cl G		50.0
Cobalt, Total	7440-48-4	200.8	0.05	0.25
Color		SM2120 B/C/E		10 color units
Dissolved oxygen		SM4500-OC/OG		0.2 mg/L
Flow		Calibrated device		
Fluoride	16984-48-8	SM4500-F E	25	100
Hardness, Total		SM2340B		200 as CaCO3
Iron, Total	7439-89-6	200.7	12.5	50
Magnesium, Total	7439-95-4	200.7	10	50
Manganese, Total	7439-96-5	200.8	0.1	0.5
Molybdenum, Total	7439-98-7	200.8	0.1	0.5
Nitrate + Nitrite Nitrogen (as N)		SM4500-NO3-E/F/H		100
Nitrogen, Total Kjeldahl (as N)		SM4500-N_{org}B/C and SM4500NH_3-B/C/D/EF/G/H		300
NWTPH Dx [4]		Ecology NWTPH Dx	250	250
NWTPH Gx [5]		Ecology NWTPH Gx	250	250
Phosphorus, Total (as P)		SM 4500 PB followed by SM4500-PE/PF	3	10
Salinity		SM2520-B		3 practical salinity units or scale (PSU or PSS)
Settleable Solids		SM2540 -F		Sample and limit dependent
Soluble Reactive Phosphorus (as P)		SM4500-P E/F/G	3	10
Sulfate (as mg/L SO_4)		SM4110-B		0.2 mg/L
Sulfide (as mg/L S)		SM4500-S^2F/D/E/G		0.2 mg/L
Sulfite (as mg/L SO_3)		SM4500-SO3B		2 mg/L
Temperature (max. 7-day avg.)		Analog recorder or use micro-recording devices known as thermistors		0.2º C
Tin, Total	7440-31-5	200.8	0.3	1.5
Titanium, Total	7440-32-6	200.8	0.5	2.5
Total Coliform		SM 9221B, 9222B, 9223B	N/A	Specified in method - sample aliquot dependent
Total Organic Carbon		SM5310-B/C/D		1 mg/L
Total dissolved solids		SM2540 C		20 mg/L

PRIORITY POLLUTANTS	PP #	CAS Number (if available)	Recommended Analytical Protocol	Detection (DL)[1] *µg/L unless specified*	Quantitation Level (QL)[2] *µg/L unless specified*
METALS, CYANIDE & TOTAL PHENOLS					
Antimony, Total	114	7440-36-0	200.8	0.3	1.0
Arsenic, Total	115	7440-38-2	200.8	0.1	0.5
Beryllium, Total	117	7440-41-7	200.8	0.1	0.5
Cadmium, Total	118	7440-43-9	200.8	0.05	0.25
Chromium (hex) dissolved	119	18540-29-9	SM3500-Cr C	0.3	1.2
Chromium, Total	119	7440-47-3	200.8	0.2	1.0
Copper, Total	120	7440-50-8	200.8	0.4	2.0
Lead, Total	122	7439-92-1	200.8	0.1	0.5
Mercury, Total	123	7439-97-6	1631E	0.0002	0.0005
Nickel, Total	124	7440-02-0	200.8	0.1	0.5
Selenium, Total	125	7782-49-2	200.8	1.0	1.0
Silver, Total	126	7440-22-4	200.8	0.04	0.2
Thallium, Total	127	7440-28-0	200.8	0.09	0.36
Zinc, Total	128	7440-66-6	200.8	0.5	2.5
Cyanide, Total	121	57-12-5	335.4	5	10
Cyanide, Weak Acid Dissociable	121		SM4500-CN I	5	10
Cyanide, Free Amenable to Chlorination (Available Cyanide)	121		SM4500-CN G	5	10
Phenols, Total	65		EPA 420.1		50

PRIORITY POLLUTANTS	PP #	CAS Number (if available)	Recommended Analytical Protocol	Detection (DL)[1] *µg/L unless specified*	Quantitation Level (QL)[2] *µg/L unless specified*
ACID COMPOUNDS					
2-Chlorophenol	24	95-57-8	625	1.0	2.0
2,4-Dichlorophenol	31	120-83-2	625	0.5	1.0
2,4-Dimethylphenol	34	105-67-9	625	0.5	1.0
4,6-dinitro-o-cresol (2-methyl-4,6,-dinitrophenol)	60	534-52-1	625/1625B	1.0	2.0
2,4 dinitrophenol	59	51-28-5	625	1.0	2.0
2-Nitrophenol	57	88-75-5	625	0.5	1.0
4-Nitrophenol	58	100-02-7	625	0.5	1.0
Parachlorometa cresol (4-chloro-3-methylphenol)	22	59-50-7	625	1.0	2.0
Pentachlorophenol	64	87-86-5	625	0.5	1.0
Phenol	65	108-95-2	625	2.0	4.0
2,4,6-Trichlorophenol	21	88-06-2	625	2.0	4.0

PRIORITY POLLUTANTS	PP #	CAS Number (if available)	Recommended Analytical Protocol	Detection (DL)[1] *µg/L unless specified*	Quantitation Level (QL)[2] *µg/L unless specified*
VOLATILE COMPOUNDS					
Acrolein	2	107-02-8	624	5	10
Acrylonitrile	3	107-13-1	624	1.0	2.0
Benzene	4	71-43-2	624	1.0	2.0
Bromoform	47	75-25-2	624	1.0	2.0
Carbon tetrachloride	6	56-23-5	624/601 or SM6230B	1.0	2.0
Chlorobenzene	7	108-90-7	624	1.0	2.0
Chloroethane	16	75-00-3	624/601	1.0	2.0

PRIORITY POLLUTANTS	**PP #**	**CAS Number (if available)**	**Recommended Analytical Protocol**	**Detection (DL)[1] *µg/L unless specified***	**Quantitation Level (QL)[2] *µg/L unless specified***
VOLATILE COMPOUNDS					
2-Chloroethylvinyl Ether	19	110-75-8	624	1.0	2.0
Chloroform	23	67-66-3	624 or SM6210B	1.0	2.0
Dibromochloromethane (chlordibromomethane)	51	124-48-1	624	1.0	2.0
1,2-Dichlorobenzene	25	95-50-1	624	1.9	7.6
1,3-Dichlorobenzene	26	541-73-1	624	1.9	7.6
1,4-Dichlorobenzene	27	106-46-7	624	4.4	17.6
Dichlorobromomethane	48	75-27-4	624	1.0	2.0
1,1-Dichloroethane	13	75-34-3	624	1.0	2.0
1,2-Dichloroethane	10	107-06-2	624	1.0	2.0
1,1-Dichloroethylene	29	75-35-4	624	1.0	2.0
1,2-Dichloropropane	32	78-87-5	624	1.0	2.0
1,3-dichloropropene (mixed isomers) (1,2-dichloropropylene) [6]	33	542-75-6	624	1.0	2.0
Ethylbenzene	38	100-41-4	624	1.0	2.0
Methyl bromide (Bromomethane)	46	74-83-9	624/601	5.0	10.0
Methyl chloride (Chloromethane)	45	74-87-3	624	1.0	2.0
Methylene chloride	44	75-09-2	624	5.0	10.0
1,1,2,2-Tetrachloroethane	15	79-34-5	624	1.9	2.0
Tetrachloroethylene	85	127-18-4	624	1.0	2.0
Toluene	86	108-88-3	624	1.0	2.0
1,2-Trans-Dichloroethylene (Ethylene dichloride)	30	156-60-5	624	1.0	2.0
1,1,1-Trichloroethane	11	71-55-6	624	1.0	2.0
1,1,2-Trichloroethane	14	79-00-5	624	1.0	2.0
Trichloroethylene	87	79-01-6	624	1.0	2.0
Vinyl chloride	88	75-01-4	624/SM6200B	1.0	2.0

PRIORITY POLLUTANTS	**PP #**	**CAS Number (if available)**	**Recommended Analytical Protocol**	**Detection (DL)[1] *µg/L unless specified***	**Quantitation Level (QL)[2] *µg/L unless specified***
BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)					
Acenaphthene	1	83-32-9	625	0.2	0.4
Acenaphthylene	77	208-96-8	625	0.3	0.6
Anthracene	78	120-12-7	625	0.3	0.6
Benzidine	5	92-87-5	625	12	24
Benzyl butyl phthalate	67	85-68-7	625	0.3	0.6
Benzo(*a*)anthracene	72	56-55-3	625	0.3	0.6
Benzo(b)fluoranthene (3,4-benzofluoranthene) [7]	74	205-99-2	610/625	0.8	1.6
Benzo(j)fluoranthene [7]		**205-82-3**	625	0.5	1.0
Benzo(k)fluoranthene (11,12-benzofluoranthene) [7]	75	207-08-9	610/625	0.8	1.6
Benzo(r,s,t)pentaphene		**189-55-9**	625	0.5	1.0
Benzo(*a*)pyrene	73	50-32-8	610/625	0.5	1.0
Benzo(*ghi*)Perylene	79	191-24-2	610/625	0.5	1.0
Bis(*2-chloroethoxy)*methane	43	111-91-1	625	5.3	21.2
Bis(*2-chloroethyl*)ether	18	111-44-4	611/625	0.3	1.0
Bis(*2-chloroisopropyl*)ether	42	39638-32-9	625	0.3	0.6
Bis(*2-ethylhexyl*)phthalate	66	117-81-7	625	0.1	0.5
4-Bromophenyl phenyl ether	41	101-55-3	625	0.2	0.4

PRIORITY POLLUTANTS	**PP #**	**CAS Number (if available)**	**Recommended Analytical Protocol**	**Detection (DL)[1] *µg/L unless specified***	**Quantitation Level (QL) [2] *µg/L unless specified***
BASE/NEUTRAL COMPOUNDS (compounds in bold are Ecology PBTs)					
2-Chloronaphthalene	20	91-58-7	625	0.3	0.6
4-Chlorophenyl phenyl ether	40	7005-72-3	625	0.3	0.5
Chrysene	76	218-01-9	610/625	0.3	0.6
Dibenzo (a,h)acridine		**226-36-8**	610M/625M	2.5	10.0
Dibenzo (a,j)acridine		**224-42-0**	610M/625M	2.5	10.0
Dibenzo(a-*h*)anthracene (1,2,5,6-dibenzanthracene)	82	53-70-3	625	0.8	1.6
Dibenzo(a,e)pyrene		192-65-4	610M/625M	2.5	10.0
Dibenzo(a,h)pyrene		189-64-0	625M	2.5	10.0
3,3-Dichlorobenzidine	28	91-94-1	605/625	0.5	1.0
Diethyl phthalate	70	84-66-2	625	1.9	7.6
Dimethyl phthalate	71	131-11-3	625	1.6	6.4
Di-n-butyl phthalate	68	84-74-2	625	0.5	1.0
2,4-dinitrotoluene	35	121-14-2	609/625	0.2	0.4
2,6-dinitrotoluene	36	606-20-2	609/625	0.2	0.4
Di-n-octyl phthalate	69	117-84-0	625	0.3	0.6
1,2-Diphenylhydrazine (*as Azobenzene*)	37	122-66-7	1625B	5.0	20
Fluoranthene	39	206-44-0	625	0.3	0.6
Fluorene	80	86-73-7	625	0.3	0.6
Hexachlorobenzene	9	118-74-1	612/625	0.3	0.6
Hexachlorobutadiene	52	87-68-3	625	0.5	1.0
Hexachlorocyclopentadiene	53	77-47-4	1625B/625	0.5	1.0
Hexachloroethane	12	67-72-1	625	0.5	1.0
Indeno(*1,2,3-cd*)Pyrene	83	193-39-5	610/625	0.5	1.0
Isophorone	54	78-59-1	625	0.5	1.0
3-Methyl cholanthrene		**56-49-5**	625	2.0	8.0
Naphthalene	55	91-20-3	625	0.3	0.6
Nitrobenzene	56	98-95-3	625	0.5	1.0
N-Nitrosodimethylamine	61	62-75-9	607/625	2.0	4.0
N-Nitrosodi-n-propylamine	63	621-64-7	607/625	0.5	1.0
N-Nitrosodiphenylamine	62	86-30-6	625	0.5	1.0
Perylene		**198-55-0**	625	1.9	7.6
Phenanthrene	81	85-01-8	625	0.3	0.6
Pyrene	84	129-00-0	625	0.3	0.6
1,2,4-Trichlorobenzene	8	120-82-1	625	0.3	0.6

PRIORITY POLLUTANT	**PP #**	**CAS Number (if available)**	**Recommended Analytical Protocol**	**Detection (DL)[1] *µg/L unless specified***	**Quantitation Level (QL) [2] *µg/L unless specified***
DIOXIN					
2,3,7,8-Tetra-Chlorodibenzo-P-Dioxin (2,3,7,8 TCDD)	129	1746-01-6	1613B	1.3 pg/L	5 pg/L

PRIORITY POLLUTANTS	**PP #**	**CAS Number (if available)**	**Recommended Analytical Protocol**	**Detection (DL)[1] *µg/L unless specified***	**Quantitation Level (QL) [2] *µg/L unless specified***
PESTICIDES/PCBs					
Aldrin	89	309-00-2	608	0.025	0.05
alpha-BHC	102	319-84-6	608	0.025	0.05
beta-BHC	103	319-85-7	608	0.025	0.05
gamma-BHC (Lindane)	104	58-89-9	608	0.025	0.05
delta-BHC	105	319-86-8	608	0.025	0.05
Chlordane [8]	91	57-74-9	608	0.025	0.05

PRIORITY POLLUTANTS	**PP #**	**CAS Number (if available)**	**Recommended Analytical Protocol**	**Detection (DL)[1] *µg/L unless specified***	**Quantitation Level (QL) [2] *µg/L unless specified***
PESTICIDES/PCBs					
4,4'-DDT	92	50-29-3	608	0.025	0.05
4,4'-DDE	93	72-55-9	608	0.025	0.05
4,4' DDD	94	72-54-8	608	0.025	0.05
Dieldrin	90	60-57-1	608	0.025	0.05
alpha-Endosulfan	95	959-98-8	608	0.025	0.05
beta-Endosulfan	96	33213-65-9	608	0.025	0.05
Endosulfan Sulfate	97	1031-07-8	608	0.025	0.05
Endrin	98	72-20-8	608	0.025	0.05
Endrin Aldehyde	99	7421-93-4	608	0.025	0.05
Heptachlor	100	76-44-8	608	0.025	0.05
Heptachlor Epoxide	101	1024-57-3	608	0.025	0.05
PCB-1242 [9]	106	53469-21-9	608	0.25	0.5
PCB-1254	107	11097-69-1	608	0.25	0.5
PCB-1221	108	11104-28-2	608	0.25	0.5
PCB-1232	109	11141-16-5	608	0.25	0.5
PCB-1248	110	12672-29-6	608	0.25	0.5
PCB-1260	111	11096-82-5	608	0.13	0.5
PCB-1016 [9]	112	12674-11-2	608	0.13	0.5
Toxaphene	113	8001-35-2	608	0.24	0.5

1. Detection level (DL) or detection limit means the minimum concentration of an analyte (substance) that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero as determined by the procedure given in 40 CFR part 136, Appendix B.
2. Quantitation Level (QL) also known as Minimum Level of Quantitation (ML) – The lowest level at which the entire analytical system must give a recognizable signal and acceptable calibration point for the analyte. It is equivalent to the concentration of the lowest calibration standard, assuming that the lab has used all method-specified sample weights, volumes, and cleanup procedures. The QL is calculated by multiplying the MDL by 3.18 and rounding the result to the number nearest to (1, 2, or 5) x 10^n, where n is an integer (64 FR 30417).
   ALSO GIVEN AS:
   The smallest detectable concentration of analyte greater than the Detection Limit (DL) where the accuracy (precision & bias) achieves the objectives of the intended purpose. (Report of the Federal Advisory Committee on Detection and Quantitation Approaches and Uses in Clean Water Act Programs Submitted to the US Environmental Protection Agency, December 2007).
3. Soluble Biochemical Oxygen Demand method note: First, filter the sample through a Millipore Nylon filter (or equivalent) - pore size of 0.45-0.50 um (prep all filters by filtering 250 ml of laboratory grade deionized water through the filter and discard). Then, analyze sample as per method 5210-B.
4. NWTPH Dx - Northwest Total Petroleum Hydrocarbons Diesel Extended Range – see http://www.ecy.wa.gov/biblio/97602.html
5. NWTPH Gx - Northwest Total Petroleum Hydrocarbons Gasoline Extended Range – see http://www.ecy.wa.gov/biblio/97602.html
6. 1, 3-dichloroproylene (mixed isomers) You may report this parameter as two separate parameters: cis-1, 3-dichlorpropropene (10061-01-5) and trans-1, 3-dichloropropene (10061-02-6).
7. Total Benzofluoranthenes - Because Benzo(b)fluoranthene, Benzo(j)fluoranthene and Benzo(k)fluoranthene co-elute you may report these three isomers as total benzofluoranthenes.
8. Chlordane – You may report alpha-chlordane (5103-71-9) and gamma-chlordane (5103-74-2) in place of chlordane (57-74-9). If you report alpha and gamma-chlordane, the DL/PQLs that apply are 0.025/0.050.
9. PCB 1016 & PCB 1242 – You may report these two PCB compounds as one parameter called PCB 1016/1242.