



## Department of Natural Resources and Parks Wastewater Treatment Division

June 9, 2017

### **West Point Treatment Plant Restoration Effluent Priority Pollutant Monitoring Data (Update as of 5/22/17 data)**

This file contains King County's influent and effluent water quality monitoring data that is being collected at the West Point wastewater treatment plant. While repairs have been underway to repair the treatment processes that were damaged in the flooding on February 9, 2017, King County has collected additional data for the EPA-designated priority pollutant parameters (i.e., consisting primarily of trace metal and organic compounds). The priority pollutants are normally collected on a quarterly frequency in the West Point influent and effluent as required by the National Pollutant Discharge Elimination System (NPDES) permit for West Point. The data collected is used primarily to evaluate the effects of the effluent discharged to Puget Sound from the outfall pipe relative to Washington's marine water quality criteria for the protection of aquatic organisms.

Additional influent and effluent samples have been collected on a bi-weekly frequency while repairs to West Point were underway. As of May 10, 2017, repairs at West Point were completed to ensure that quality of secondary treated effluent will consistently meet all permit requirements for the conventional parameters that can affect priority pollutant concentrations (e.g., suspended solids). Effluent quality will continue to be evaluated with samples collected in June to verify that measured concentrations are normal and stable and determine when to resume the routine monitoring of priority pollutants on a once-per-quarter basis. Updates to this data report will be prepared on a periodic basis as the laboratory analysis results become available.

The attached file contains the available partial data for influent and effluent samples that were collected on May 10, 2017 and May 22, 2017. The "Preliminary Draft Data" watermark refers to analyses completed and validated by King County; however, submittal of the final data to Ecology is pending completion of all sampling and analysis within the current monthly reporting period.

If you have questions about this document, contact Jeff Lafer at 206-477-6315 or email him at [jeff.lafer@kingcounty.gov](mailto:jeff.lafer@kingcounty.gov).

Alternative Formats Available  
206-477-5371, TTY Relay: 711

West Point - Influent						West Point - Effluent					Sample Blank						
Project:	421093-100					Project:	421093-100					Project:	421093-100				
Locator:	S4001					Locator:	FESD01					Locator:	ATMOSBLANK				
Descrip:	WEST POINT STP/DIV					Descrip:	WP FINAL EFFLUENT					Descrip:	ATMOSPHERE BLANK				
Sample:	L67779					Sample:	L67779					Sample:	L67779				
Matrix:	LB INFLUENT					Matrix:	LC EFFLUENT					Matrix:	LN BLANK WTR				
ColDate:	5/22/17 9:46					ColDate:	5/22/17 10:09					ColDate:	5/22/17 10:13				
TimeSpan:	24					TimeSpan:	24					TimeSpan:	24				
WET Weight Basis						WET Weight Basis					WET Weight Basis						
Parameters	Value		MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units		
<b>MT EPA 200.8*SW846 6020A</b>																	
Antimony, Total, ICP-MS	0.49	<RDL	0.3	1	ug/L	0.31	<RDL	0.3	1	ug/L							
Arsenic, Total, ICP-MS	1.87		0.05	0.25	ug/L	1.42		0.05	0.25	ug/L							
Barium, Total, ICP-MS	25.1		0.5	0.5	ug/L	9.03		0.5	0.5	ug/L							
Beryllium, Total, ICP-MS		<MDL	0.1	0.5	ug/L		<MDL	0.1	0.5	ug/L							
Cadmium, Total, ICP-MS	0.19	<RDL	0.05	0.25	ug/L		<MDL	0.05	0.25	ug/L							
Chromium, Total, ICP-MS	3.21		0.2	1	ug/L	0.81	<RDL	0.2	1	ug/L							
Copper, Total, ICP-MS	45.5		0.2	2	ug/L	12.9		0.2	2	ug/L							
Lead, Total, ICP-MS	4.26		0.1	0.5	ug/L	0.35	<RDL	0.1	0.5	ug/L							
Nickel, Total, ICP-MS	4.29		0.1	0.5	ug/L	2.62		0.1	0.5	ug/L							
Selenium, Total, ICP-MS	1.05		0.5	1	ug/L	0.55	<RDL	0.5	1	ug/L							
Silver, Total, ICP-MS	0.347		0.04	0.2	ug/L	0.055	<RDL	0.04	0.2	ug/L							
Thallium, Total, ICP-MS		<MDL	0.1	0.2	ug/L		<MDL	0.1	0.2	ug/L							
Zinc, Total, ICP-MS	110		0.5	2.5	ug/L	39.1		0.5	2.5	ug/L							
<b>MT EPA 1631E</b>																	
Mercury, Total, CVAF	0.0186		0.001	0.003	ug/L	0.00348		0.001	0.003	ug/L	<MDL		0.0002	0.0005	ug/L		
<b>CV EPA 420.1</b>																	
Total Phenolics	0.072		0.04	0.04	mg/L		<MDL	0.041	0.041	mg/L							
<b>CV SM4500-CN-I-E</b>																	
Cyanide, Weak & Dissociable		<MDL	0.002	0.01	mg/L		<MDL	0.002	0.01	mg/L							

Parameters	West Point - Influent					West Point - Effluent					Sample Blank				
	Value		MDL	RDL	Units	Value	Qual	MDL	RDL	Units	Value	Qual	MDL	RDL	Units
<b>MT EPA 200.8 SW846 6020A</b>															
Antimony, Total, ICP-MS	0.48	<RDL	0.3	1	ug/L	0.45	<RDL	0.3	1	ug/L					
Arsenic, Total, ICP-MS	1.58		0.1	0.5	ug/L	1.66		0.1	0.5	ug/L					
Barium, Total, ICP-MS	19		0.5	0.5	ug/L	20.4		0.5	0.5	ug/L					
Beryllium, Total, ICP-MS		<MDL	0.1	0.5	ug/L		<MDL	0.1	0.5	ug/L					
Cadmium, Total, ICP-MS	0.22	<RDL	0.05	0.25	ug/L	0.285		0.05	0.25	ug/L					
Chromium, Total, ICP-MS	1.64		0.2	1	ug/L	1.8		0.2	1	ug/L					
Copper, Total, ICP-MS	26.3		0.2	2	ug/L	28.6		0.2	2	ug/L					
Lead, Total, ICP-MS	2.47		0.1	0.5	ug/L	3.1		0.1	0.5	ug/L					
Nickel, Total, ICP-MS	3.75		0.1	0.5	ug/L	3.9		0.1	0.5	ug/L					
Selenium, Total, ICP-MS	0.67	<RDL	0.5	1	ug/L	0.78	<RDL	0.5	1	ug/L					
Silver, Total, ICP-MS	0.16	<RDL	0.04	0.2	ug/L	0.18	<RDL	0.04	0.2	ug/L					
Thallium, Total, ICP-MS		<MDL	0.1	0.2	ug/L		<MDL	0.1	0.2	ug/L					
Zinc, Total, ICP-MS	61.8		0.5	2.5	ug/L	66.2		0.5	2.5	ug/L					
<b>MT EPA 1631E</b>															
Mercury, Total, CVAF	0.0156		0.002	0.005	ug/L	0.0154		0.002	0.005	ug/L	<MDL		0.0002	0.0005	ug/L
<b>CV EPA 420.1</b>															
Total Phenolics		<MDL	0.04	0.04	mg/L		<MDL	0.04	0.04	mg/L					
<b>CV SM4500-CN-LE</b>															
Cyanide, Weak & Dissociable		<MDL	0.002	0.01	mg/L	0.002	<RDL	0.002	0.01	mg/L					

PRELIMINARY DRAFT DATA