

Structural Stormwater Control Projects, Appendix 11 of NPDES Permit #WAR04-4022, 2014 through 2018 (as of Dec 31st)																						
Municipal SW Phase I General Permit																						
2018 MS4 Annual Permit																						
Question 34b. Updated list of planned, individual projects scheduled for implementatation during this permit term.																						
Project Name	Type ¹	Start Year	Status ²	End Year	Cost Estimate ³	Funding (%) Local State Federal			WQ Benefit ⁴	Hydro Benefit ⁵	Hydro Benefit #	MR# 5 Incentive	MR# 6 Incentive	MR# 7 Incentive	Total Retrofit Incentive ⁶	Other Benefit	Monitoring Planned	Lat	Long	Receiving Water Body	Comments	
D413 - Rody Creek Filter Project Phase 1 - 59th Ave E.	2	2014	4	2015	\$ 122,624.33	25%	75%	0%	345.4	0%			6.60		6.60	3.14 acres	No	47.19	-122.35	Rody Creek	Used KC S8.D. data for HDR 137.5 lbs/acre/yr 80% effec.**	
D416 -Phase 1 Rody Pond Retrofit	2	2014	4	2015	\$ 296,730.97	25%	75%	0%	2,794.0	0%			101.20		101.20	25.4 acres	No	47.17	-122.35	Rody Creek	Used KC S8.D. data for HDR 137.5 lbs/acre/yr 80% effec.**	
D415 Phase 1 Spanaway Lake Park Filtterra Retrofit	2	2014	4	2015	\$ 311,842.51	25%	75%	0%	546.8	100%	2	5.30			5.30	2.86 acres	No	47.12	-122.45	Spanaway Lake	Used KC S8.D data for comm 239lbs/acre/year. 80% effec. Filtterra	
D417 - Phase 2 - Spanaway Lake Park LID Retrofit	2	2014	4	2015	\$ 940,376.09	25%	75%	0%	634.8	60%	2	6.10			6.10	3.32 acres	No	47.12	-122.45	Spanaway Lake	Used KC S8.D data for comm 239lbs/acre/year. LID portion	
D413 Phase 2 Boxless Filtterra Project - 86th Street.	2	2015	4	2016	\$ 136,378.91	25%	75%	0%	451.0	0%			8.61		8.61	4.1 acres	No	47.18	-122.35	Rody Creek	Used KC S8.D. data for HDR 137.5 lbs/acre/yr 80% effec.**	
D416 Rody Creek WQ Retrofit at 72nd Street	2	2015	4	2016	\$ 355,848.95	25%	75%	0%	1,320.0	0%			25.20		25.20	12 acres basic treatment	No	47.19	-122.36	Rody Creek	Used KC S8.D. data for HDR 137.5 lbs/acre/yr 80% effec.**	
D419, Woodland Creek Water Quality Retrofit at 84th St. E & 72nd Ave. E.	2	2016	4	2017	\$ 549,548.64	100%			8,547.0				163.20		163.20	77.7 acre basin. Install Water Quality Vault on 72nd Ave. E. near 84th St. E.	Yes	47°09'42.89"N	122°20'09.98"W	Woodland Creek	The vault will use canister filters and a pretreatment device. Plans are currently at 90%. Project engineered to meet Basic Treatment Menu 137.5 lbs/acre/yr 80% effec.**	
D442 - Brookdale Rd and N. Fork Clover Creek Outfall Retrofit	2	2016	2	2020	\$ 530,000.00	100%			819,550.0	0%			77.70		77.70	37 acres contributing basin	No	47.14	-122.42	North Fork Clover Creek	137.5 lbs/acre/yr 80% effec.**	
D047 Sprinker Parking Lot LID Retrofit Phase 3	2	2015	1	2018	\$ 740,000.00	100%										Sprinker is a Regional Parks facility and project is retrofitting the existing parking lot with pervious driving surfaces and large rain gardens.	Yes	47.12	-122.44	Spanaway Creek	This project is in the initial design phase at time of this report. Therefore, WQ benefits, and hydro benefits, will be calculated in the future as additional data is collected.	
D810, Diru Creek Water Quality Retrofit at 67th Ave. Ct. E.	2	2016	2	2018	\$ 173,105.00	25%	75%		1,408.0	0%			26.88		26.88	12.8 acre basin. Install Water Quality Vault on 67th Ave. E. between 104th St. E. and Pipeline Road.	Yes	47o09'48.54"N	122020'24.53"W	Diru Creek	Design at 60%. Project engineered to meet Basic Treatment Menu Standards, 137.5 lbs/acre/yr 80% effec.**	
D811, Diru Creek Water Quality Retrofit at 64th Ave. Ct. E.	2	2016	2	2018	\$ 119,134.00	100%			346.5	0%			3.15		3.15	1.5 acre basin. Install Water Quality Vault on 64th Ave. E. between 104th St. E. and Pipeline Road.	Yes	47o09'48.54"N	122020'24.53"W	Diru Creek	Design at 60%. Project engineered to meet Basic Treatment Menu Standards, 137.5 lbs/acre/yr 80% effec.**	

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D411, Woodland Creek 104th St. E. Stormwater Treatment System	2	2014	2	2019	\$ 1,726,587.00	25%	75%		49,027.0	0%	1		133.29		133.29	445.7 acre basin. Install cell wet pond south of 104th St. E., east of Woodland Ave	Yes	47o10'49.63"N	122020'11.62"W	Rody Creek	Project engineered to meet Basic Treatment Menu 137.5 lbs/acre/yr 80% effec.**
D418, Phase 3 Spanaway Lake Park Retrofits	2	2016	4	2018	\$ 489,933.00	25%	75%		526.2	73%	2	4.82			4.82	2.75 acre basin. All LID features in Park.	No	47o12'N	122045'W	Spanaway Lake	Construction Completed in January 2018. Used KC S88D data for comm. 239lbs/acre/yr, 80% effec. **
Sheriff East Precinct Impound Lot	2	2017	4	2018	\$ 150,000.00	100%			34.1	100%	1		0.54		0.54	0.31 acre basin. Pretreatment, oil/water separator, and infiltration.	No	47o06'41.11"N	122017'24.87"W	Clear/Clarks Creek	60% design. 137.5 lbs/acre/yr 80% effec.**
Clover Watershed Drywells Retrofit	5	2015	2	2019	\$ 732,000.00	25%	75%	0%	3,945.7	100%	2		35.87		35.87		No	47.08	-122.39	Clover Creek	Used KC S8.D. data for HDR 137.5 lbs/acre/yr 80% effec.**. 125 drywells with averages of 12,500 sq ft average contributing area per location. Each project requires design and permitting as they are scheduled.
112th St E Storm Pond Retrofit at Bob Findley Road (Old CMF building)	3		5													The existing storm pond receives road runoff from 112th St. E., treating for flow control but has no water quality treatment. It will be investigated how WQ treatment can be incorporated into pond.	Yes	47.15	-122.41	North Fork Clover Creek	Project canceled
Pierce County Pond #161 Retrofits @ 112th St. E. & 26th Ave. E	3		5													The existing storm pond receives road runoff from 112th St. E., treating for flow control but the pond does not appear to be attenuating flow due inadequate draining down of pond after storm.	Yes	47.16	-122.39	Swan Creek	Project is on hold.
Tacoma Narrows Airport Stormwater Outfall Modification	2		5													Project is Retrofitting the the stormwater system on the northern part of the airport to install a vault treatment system in the outfall pipe which drains to Puget Sound	No	47.26	-122.58	Puget Sound	Project is on hold.
Status ²	1. Planning		2. Design and permitting		3. Construction			4. Complete/Maintenance			5. Project Cancelled			6. Property acquisition							
** Median TSS Unit Area Loading Rate (lbs/ac/yr) and Treatment Removal Efficiency for TSS (%) - Suggested Value Per Department of Ecology, Water Quality Section (Douglas C. Howie, P.E.																					