

# Seattle Public Utilities Water Fund Draft Proposed 2016-2021 Capital Improvement Program

## Attachment 3a

Highlights show changes from 3/23/2015

5/28/2015, for 6/4/2015 OB

Row	Project Name (Red = New Projects since 2015 CIP)	Sum of Previous Years Actuals (2014 and earlier)	2015 Spending Projections (as of 5/11/2015)	2016	2017	2018	2019	2020	2021	Sum of Remaining Costs (2022 and beyond)	Total Project Cost **
	<b>Existing Supply Cost Pool</b>										
1	Tolt Ring Gate Upgrade	\$0	\$100,000	\$500,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$700,000
2	Morse Lake Pump Plant	\$18,736,244	\$17,256,003	\$3,969,834	\$0	\$0	\$0	\$0	\$0	\$0	\$39,962,081
3	Hatchery Spring Water Redundancy	\$0	\$20,000	\$100,000	\$400,000	\$100,000	\$80,000	\$0	\$0	\$0	\$700,000
4	Sockeye Broodstock Weir	\$0	\$15,000	\$200,000	\$3,000,000	\$75,000	\$18,000	\$0	\$0	\$0	\$3,308,000
5	Hatchery Spring Water Pump Improvement	\$0	\$0	\$71,992	\$243,655	\$0	\$0	\$0	\$0	\$0	\$315,647
6	Hatchery Adult Pond Improvement	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$300,000	\$800,000
7	Watershed Road Improvements	\$1,968,848	\$559,165	\$550,800	\$568,058	\$573,052	\$600,750	\$612,765	\$614,885	--	--
8	Watershed Road Decommissioning	\$1,761,203	\$251,305	\$260,000	\$708,104	\$666,809	\$250,000	\$250,000	\$242,000	--	--
9	Riparian Conifer Underplanting	\$729,334	\$12,500	\$12,000	\$13,000	\$13,260	\$13,525	\$13,796	\$14,072	--	--
10	LWD Replacement in Streams	\$931,897	\$88,000	\$55,000	\$55,000	\$55,000	\$55,000	\$55,000	\$57,000	--	--
11	Riparian Restoration Thinning	\$522,248	\$14,000	\$14,000	\$14,280	\$14,566	\$14,857	\$15,154	\$15,457	--	--
12	Bank Revegetation	\$420,387	\$13,000	\$8,000	\$8,000	\$8,200	\$8,400	\$8,500	\$8,500	--	--
13	Passage for Peak Flows	\$467,764	\$30,358	\$35,000	\$35,000	\$36,000	\$37,000	\$37,000	\$37,740	--	--
14	Bank Stabilization	\$205,735	\$43,500	\$40,000	\$40,000	\$40,000	\$40,000	\$40,000	\$60,000	--	--
15	Upland Restoration Planting	\$772,001	\$18,000	\$11,000	\$11,220	\$11,444	\$11,673	\$11,907	\$12,145	--	--
16	Upland Ecological Thinning	\$1,644,897	\$82,636	\$82,000	\$84,000	\$86,000	\$87,000	\$89,000	\$90,780	--	--
17	Freshwater Conservation (Ballard Locks)	\$358,666	\$131,000	\$136,000	\$140,000	\$145,000	\$150,000	\$155,000	\$160,000	\$0	\$1,375,666
18	Downstream Habitat-Instream Flows	\$6,051,459	\$13,215	\$10,000	\$10,000	\$0	\$0	\$0	\$0	\$0	\$6,084,674
19	Downstream Habitat-Landsburg Mitigation	\$1,494,796	\$450,000	\$595,000	\$332,010	\$383,000	\$0	\$0	\$0	\$0	\$3,254,806
20	Chinook Studies	\$1,407,354	\$24,800	\$137,000	\$142,000	\$147,000	\$152,000	\$157,000	\$160,000	--	--
21	Cedar Bridges	\$0	\$2,000	\$1,000	\$1,000	\$1,000	\$1,000	\$100,000	\$15,000	--	--
22	CRW Contamination Remediation	\$0	\$61,000	\$350,000	\$100,000	\$0	\$0	\$0	\$0	\$0	\$511,000
23	Tolt Bridge Chuck Judd Cr	\$0	\$0	\$200,000	\$200,000	\$0	\$0	\$0	\$0	\$0	\$400,000
24	Tolt Bridge Siwash Creek	\$0	\$0	\$250,000	\$250,000	\$0	\$0	\$0	\$0	\$0	\$500,000
25	MIT Road Improvements	\$0	\$85,000	\$81,600	\$83,232	\$84,897	\$86,595	\$88,326	\$90,093	\$0	\$599,743
26	Cedar Falls Building Imprvmts	\$46,873	\$112,600	\$100,000	\$75,000	\$50,000	\$50,000	\$50,000	\$0	--	--
27	Cedar Falls Facilities Development	\$683,288	\$1,168,100	\$965,075	\$7,173,209	\$4,435,369	\$71,534	\$0	\$0	\$0	\$14,496,575
27a	Cedar Falls Phase 2	\$0	\$0	\$0	\$0	\$0	\$200,000	\$500,000	\$2,000,000	\$9,000,000	\$11,700,000
28	Tolt Building Imprvmts	\$153,059	\$85,000	\$100,000	\$50,000	\$50,000	\$50,000	\$50,000	\$0	--	--
28a	Tolt/Duvall Facilities Dev.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$8,500,000	\$9,000,000
29	Lake Youngs Building Imprvmts	\$91,367	\$0	\$100,000	\$75,000	\$75,000	\$75,000	\$75,000	\$0	--	--
29a	Lake Youngs Facilities Dev.	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$500,000	\$9,000,000	\$9,500,000
30	Materials Supply Inventory Reg'l	\$741,675	\$174,000	\$50,000	\$0	\$0	\$0	\$0	\$0	\$0	\$965,675
	<b>Existing Supply Total</b>	<b>\$39,189,095</b>	<b>\$20,810,182</b>	<b>\$8,985,301</b>	<b>\$13,911,768</b>	<b>\$7,050,597</b>	<b>\$2,052,334</b>	<b>\$2,308,448</b>	<b>\$5,077,672</b>	<b>\$26,800,000</b>	<b>\$104,173,867</b>

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5/28/2015, for 6/4/2015 OB

Row	Project Name (Red = New Projects since 2015 CIP)	Sum of Previous Years Actuals (2014 and earlier)	2015 Spending Projections (as of 5/11/2015)	2016	2017	2018	2019	2020	2021	Sum of Remaining Costs (2022 and beyond)	Total Project Cost **
	<b>Existing Transmission Cost Pool</b>										
31	Maple Leaf Reservoir Seismic	\$1,053,186	\$5,002,000	\$1,112,000	\$0	\$0	\$0	\$0	\$0	\$0	\$7,167,186
32	Reservoir Covering-Lake Forest Park	\$0	\$0	\$0	\$0	\$0	\$590,000	\$1,200,000	\$9,750,000	\$620,000	\$12,160,000
33	Tolt Slide Improvements	\$0	\$50,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$350,000	\$0	\$2,150,000
34	Tolt Slide Toe Stabilization	\$198,847	\$298,000	\$15,000	\$0	\$0	\$0	\$0	\$0	\$0	\$511,847
35	Tolt Slide Tunnel	\$0	\$0	\$0	\$2,000,000	\$18,500,000	\$18,500,000	\$2,400,000	\$0	\$0	\$41,400,000
35a	Eastside Reservoir Drainage Improvements	\$80,591	\$679,800	\$6,000	\$0	\$0	\$0	\$0	\$0	\$0	\$766,391
36	Transmission Pipelines Rehab	\$0	\$82,450	\$250,000	\$250,000	\$1,062,000	\$1,084,000	\$1,106,000	\$1,150,000	--	--
	Existing Transmission Total	\$1,332,624	\$6,112,250	\$1,733,000	\$2,600,000	\$19,912,000	\$20,524,000	\$5,056,000	\$11,250,000	\$620,000	\$64,155,424
	<b>Individual Purveyors</b>										
37	Purveyor Meters	--	\$161,500	\$204,000	\$208,000	\$213,000	\$218,000	\$223,000	\$100,000	--	--
	Individual Purveyors Total		\$161,500	\$204,000	\$208,000	\$213,000	\$218,000	\$223,000	\$100,000		
	<b>Subregional Costs</b>										
	None										
	Subregion Total	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	<b>Various*</b>										
38	Dam Safety	--	\$461,000	\$750,000	\$775,000	\$500,000	\$650,000	\$650,000	\$750,000	--	--
39	Treatment Facility/WQ Improvements	--	\$204,550	\$250,000	\$234,464	\$250,000	\$250,000	\$480,000	\$150,000	--	--
40	System Dewatering Program	--	\$126,000	\$24,000	\$25,000	\$27,000	\$30,000	\$33,000	\$35,000	--	--
41	Cathodic Protection (CP)	--	\$1,030,231	\$867,249	\$380,000	\$810,000	\$390,000	\$810,000	\$900,000	--	--
42	Replace Air Valve Chambers	--	\$121,500	\$124,766	\$124,766	\$127,000	\$130,000	\$132,651	\$130,000	--	--
43	SCADA WF Imprv Phase 2	--	\$410,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	\$480,000	--	--
44	Integrated Security Syst - WF	--	\$428,000	\$520,000	\$600,000	\$650,000	\$700,000	\$750,000	\$750,000	--	--
45	Integrated Security System	--	\$389,250	\$263,250	\$168,750	\$36,000	\$36,000	\$36,000	\$36,000	--	--
46	SR 520 Corridor Project-WF	--	\$0	\$50,000	\$50,000	\$300,000	\$500,000	\$500,000	\$0	--	--
	Various Total		\$3,170,531	\$3,329,265	\$2,837,980	\$3,180,000	\$3,166,000	\$3,871,651	\$3,231,000		
	<b>New Supply Cost Pool</b>										
47	Regional Conservation Indoor	--	\$664,378	\$651,333	\$664,360	\$676,647	\$686,871	\$705,024	\$719,125	--	--
48	Regional Conservation Outdoor	--	\$180,780	\$165,548	\$168,859	\$172,236	\$175,681	\$179,195	\$182,778	--	--
49	Regional Conservation Commercial	--	\$838,562	\$855,333	\$872,440	\$889,889	\$907,687	\$925,840	\$944,357	--	--
	New Supply Total		\$1,683,720	\$1,672,214	\$1,705,659	\$1,738,772	\$1,770,239	\$1,810,059	\$1,846,260		
	<b>Grand Total</b>		\$31,938,183	\$15,923,780	\$21,263,407	\$32,094,369	\$27,730,573	\$13,269,158	\$21,504,932	\$27,420,000	\$168,329,291

Notes:

\*Projects indicated as 'Various' involve work on multiple facilities. Costs for these projects will be included in regional or subregional cost pools to the extent that work is done on a regional or subregional facility.

\*\*All amounts are in inflated dollars. Total project costs are shown for those projects where costs will be allocated when project goes online.

\*\*\* Assume annual closing for the sake of rate calculation.

Seattle Public Utilities Water Fun Seattle Public Utilities Water Fund Draft Proposed 2016-2021 Capital Improvement Program

Attachment 3a

Demand used in calculations same as presented on April 3, 2014

5/28/2015, for 6/4/2015 OB

Row	Project Name (Red = New Projects since 2015 CIP)	Accounting balance in Work-In-Progress as of 12/31/15	Closing year of assets	Assumed accounting life	Percentage assumed to regional/subregional rates	Effect on 2016 rates	Effect on 2017 rates	Effect on 2018 rates	Effect on 2019 rates	Effect on 2020 rates	Effect on 2021 rates
	<b>Existing Supply Cost Pool</b>										
1	Tolt Ring Gate Upgrade	\$0	2017	30	100%	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
2	Morse Lake Pump Plant	\$9,736,901	2016	50	100%	\$ 0.035	\$ 0.046	\$ 0.045	\$ 0.045	\$ 0.044	\$ 0.043
3	Hatchery Spring Water Redundancy	\$0	2019	30	100%	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001
4	Sockeye Broodstock Weir	\$0	2019	10	100%	\$ -	\$ -	\$ -	\$ 0.004	\$ 0.010	\$ 0.009
5	Hatchery Spring Water Pump Improvement	\$0	2017	10	100%	\$ -	\$ -	\$ -	\$ 0.004	\$ 0.010	\$ 0.009
6	Hatchery Adult Pond Improvement	\$0	2023	30	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
7	Watershed Road Improvements	\$62,349	various***	20	100%	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.004	\$ 0.006	\$ 0.007
8	Watershed Road Decommissioning	\$703	various***	20	100%	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.004	\$ 0.004	\$ 0.004
9	Riparian Conifer Underplanting	\$148,615	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	LWD Replacement in Streams	\$476,552	various***	10	100%	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001
11	Riparian Restoration Thinning	\$101,948	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
12	Bank Revegetation	\$101,477	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	Passage for Peak Flows	\$28,399	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.001
14	Bank Stabilization	\$7,715	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001
15	Upland Restoration Planting	\$286,281	various***	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	Upland Ecological Thinning	\$594,585	various***	10	100%	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
17	Freshwater Conservation (Ballard Locks)	\$21,392	2021	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 0.001
18	Downstream Habitat-Instream Flows	\$289	2017	10	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
19	Downstream Habitat-Landsburg Mitigation	\$2,125,484	2018	10	100%	\$ -	\$ -	\$ 0.004	\$ 0.011	\$ 0.011	\$ 0.010
20	Chinook Studies	\$890,417	various***	10	100%	\$ -	\$ 0.001	\$ 0.001	\$ 0.002	\$ 0.002	\$ 0.002
21	Cedar Bridges	\$0	various***	75	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	CRW Contamination Remediation	\$0	2017	20	100%	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
23	Tolt Bridge Chuck Judd Cr	\$0	2017	75	100%	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
24	Tolt Bridge Siwash Creek	\$0	2017	75	100%	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
25	MIT Road Improvements	\$0	2017	20	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001
26	Cedar Falls Building Imprvmts	\$0	various***	30	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001
27	Cedar Falls Facilities Development	\$469,993	2019	30	100%	\$ -	\$ -	\$ -	\$ 0.016	\$ 0.025	\$ 0.024
27a	Cedar Falls Phase 2	\$0	2024	30	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28	Tolt Building Imprvmts	\$84,972	various***	30	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
28a	Tolt/Duvall Facilities Dev.	\$0	2025	30	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
29	Lake Youngs Building Imprvmts	\$0	various***	30	100%	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001	\$ 0.001
29a	Lake Youngs Facilities Dev.	\$0	2025	30	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
30	Materials Supply Inventory Reg'l	\$366,848	2016	10	100%	\$ 0.001	\$ 0.002	\$ 0.002	\$ 0.002	\$ 0.002	\$ 0.001
	<b>Existing Supply Total</b>	<b>\$15,504,918</b>				<b>\$ 0.038</b>	<b>\$ 0.056</b>	<b>\$ 0.063</b>	<b>\$ 0.100</b>	<b>\$ 0.125</b>	<b>\$ 0.122</b>

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Demand used in calculations same as presented on April 3, 2014

5/28/2015, for 6/4/2015 OB

Row	Project Name (Red = New Projects since 2015 CIP)	Accounting balance in Work-In-Progress as of 12/31/15	Closing year of assets	Assumed accounting life	Percentage assumed to regional/subregional rates	Effect on 2016 rates	Effect on 2017 rates	Effect on 2018 rates	Effect on 2019 rates	Effect on 2020 rates	Effect on 2021 rates
	<b>Existing Transmission Cost Pool</b>										
31	Maple Leaf Reservoir Seismic	\$1,074,530	2016	67	100%	\$ 0.008	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010	\$ 0.010
32	Reservoir Covering-Lake Forest Park	\$0	2022	20	100%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
33	Tolt Slide Improvements	\$0	2020	50	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.002	\$ 0.003
34	Tolt Slide Toe Stabilization	\$205,748	2016	20	100%	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
35	Tolt Slide Tunnel	\$0	2020	75	100%	\$ -	\$ -	\$ -	\$ -	\$ 0.047	\$ 0.057
35a	Eastside Reservoir Drainage Improvements	\$81,754	2016	50	100%	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
36	Transmission Pipelines Rehab	\$0	various***	25	100%	\$ -	\$ 0.001	\$ 0.003	\$ 0.005	\$ 0.007	\$ 0.009
	Existing Transmission Total	\$1,362,033				\$ 0.010	\$ 0.013	\$ 0.015	\$ 0.017	\$ 0.068	\$ 0.081
	<b>Individual Purveyors</b>										
37	Purveyor Meters	--	various***		N/A, not rate based	N/A	N/A	N/A	N/A	N/A	N/A
	Individual Purveyors Total										
	<b>Subregional Costs</b>										
	None										
	Subregion Total	\$0				\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	<b>Various*</b>										
38	Dam Safety	--	various***	50	100%	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.004	\$ 0.005	\$ 0.006
39	Treatment Facility/WQ Improvements	\$41,355	various***	10	50%	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.002	\$ 0.002
40	System Dewatering Program	--	various***	20	50%	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
41	Cathodic Protection (CP)	--	various***	20	80%	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.004	\$ 0.005	\$ 0.006
42	Replace Air Valve Chambers	--	various***	20	50%	\$ -	\$ -	\$ -	\$ -	\$ 0.001	\$ 0.001
43	SCADA WF Imprv Phase 2	\$5,996	various***	10	50%	\$ 0.001	\$ 0.001	\$ 0.002	\$ 0.003	\$ 0.003	\$ 0.004
44	Integrated Security Syst - WF	--	various***	10	50%	\$ 0.001	\$ 0.002	\$ 0.002	\$ 0.003	\$ 0.004	\$ 0.005
45	Integrated Security System	--	various***	10	50%	\$ -	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001	\$ 0.001
46	SR 520 Corridor Project-WF	--	various***	50	WSDOT Reimbursed	N/A	N/A	N/A	N/A	N/A	N/A
	Various Total	\$47,352				\$ 0.004	\$ 0.009	\$ 0.012	\$ 0.016	\$ 0.021	\$ 0.025
	<b>New Supply Cost Pool</b>										
47	Regional Conservation Indoor	--	various***	10	Not rate based	N/A	N/A	N/A	N/A	N/A	N/A
48	Regional Conservation Outdoor	--	various***	10	Not rate based	N/A	N/A	N/A	N/A	N/A	N/A
49	Regional Conservation Commercial	--	various***	10	Not rate based	N/A	N/A	N/A	N/A	N/A	N/A
	New Supply Total										
	<b>Grand Total</b>	\$16,914,303									

Notes:

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\*\*\* Assume annual closing for the sake of rate calculation.