Department of Permitting Environmental Review

Critical Areas Mitigation **Bond Quantity Worksheet**

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35030 SE Douglas Str, Suite 210

Snoqualmie, WA 98065-9266 206-296-6600 TTY Relay: 711

Date: 5-Mar-19 Prepared by: Kahlo, Ryan Project Name: Mercer Island Yang

Project Number: **Project Description: Watercourse Buffer Averaging**

oject Number:	Project Des	cription: Wa	tercourse	Buffer Averag	ing		
cation: 6660 East Mercer Way, Mercer	Island, WA	Applicant:	Steve and	Sophie Yang	Phone:	206-406-	6954
PLANT MATERIALS (includes labor cost for plant installation)	·	4					
Туре	Unit Price	Unit	Quantity	Description		Cost	
PLANTS: Potted, 4" diameter, medium	\$5.00	Each	729.00			\$	3,645
PLANTS: Container, 1 gallon, medium soil	\$11.50	Each	342.00	-		\$	3,933
PLANTS: Container, 2 gallon, medium soil	\$20.00	Each				\$	
PLANTS: Container, 5 gallon, medium soil	\$36.00	Each				\$	
PLANTS: Seeding, by hand	\$0.50	SY				\$	
PLANTS: Slips (willow, red-osier)	\$2.00	Each				\$	
PLANTS: Stakes (willow)	\$2.00	Each				\$	
PLANTS: Stakes (willow) PLANTS: Flats/plugs	\$2.00 \$2.00	Each Each				\$	
PLANTS: Flats/plugs	Ψ2.00	Lacil			TOTAL	\$	7,57
INSTALLATION COSTS (LABOR, EQU							
Туре	Unit Price	Unit				Cost	
Compost, vegetable, delivered and spread	\$37.88	CY	45.00			\$	1,70
Decompacting till/hardpan, medium, to 6" depth	\$1.57	CY	45.00			\$	7
Decompacting till/hardpan, medium, to 12" depth	\$1.57 \$0.51	CY				\$	
Hydroseeding abor general (landscaning other than plant installation)	\$0.51 \$40.00	SY HR				\$	
_abor, general (landscaping other than plant installation) _abor, general (construction)	\$40.00	HR HR				\$	
_abor: Consultant, supervising	\$55.00	HR				\$	
_abor: Consultant, supervising _abor: Consultant, on-site re-design	\$95.00	HR				\$	
Rental of decompacting machinery & operator	\$70.00	HR	6.00			\$	42
Sand, coarse builder's, delivered and spread	\$42.00	CY	0.00			\$	-12
Staking material (set per tree)	\$7.00	Each				\$	
Surveying, line & grade	\$250.00	HR				\$	
Surveying, topographical	\$250.00	HR				\$	
Watering, 1" of water, 50' soaker hose	\$3.62	MSF		· · · · · · · · · · · · · · · · · · ·		\$	
Irrigation - temporary	\$3,000.00	Acre	0.10			\$	30
rrigation - buried	\$4,500.00	Acre				\$	
Filling topsoil, disk harrow, 20hp tractor, 4"-6" deep	\$1.02	SY			_	\$	
HABITAT STRUCTURES*					TOTAL	\$	2,49
	1,,,,,,	1			1		
TEMS	Unit Cost	Unit				Cost	
Fascines (willow)	\$ 2.00	Each				\$	
.ogs, (cedar), w/ root wads, 16"-24" diam., 30' long	\$1,000.00	Each				\$	
.ogs (cedar) w/o root wads, 16"-24" diam., 30'	\$400.00	Each				\$	
ogs, w/o root wads, 16"-24" diam., 30' long ogs w/ root wads, 16"-24" diam., 30' long	\$245.00 \$460.00	Each Each				\$	
Rocks, one-man	\$460.00 \$60.00	Each				\$	
Rocks, two-man	\$120.00	Each				\$	
Root wads	\$163.00	Each				\$	
Spawning gravel, type A	\$22.00	CY				\$	
Neir - log	\$1,500.00	Each				\$	
Neir - adjustable	\$2,000.00	Each				\$	
Noody debris, large	\$163.00	Each				\$	
Snags - anchored	\$400.00	Each				\$	
Snags - on site	\$50.00	Each				\$	
Snags - imported	\$800.00	Each				\$	
* All costs include delivery and installation					TOTAL	\$	
EROSION CONTROL							
TEMS	Unit Cost	Unit				Cost	
Backfill and Compaction-embankment	\$ 4.89	CY				\$	
Crushed surfacing, 1 1/4" minus	\$30.00	CY				\$	
Ditching	\$7.03	CY				\$	
excavation, bulk ence, silt	\$4.00 \$1.60	CY LF	73.00			\$	11
ence, siit lute Mesh	\$1.60 \$1.26	SY	13.00			\$	11
Mulch, by hand, straw, 2" deep	\$1.26	SY				\$	
Mulch, by hand, wood chips, 2" deep	\$3.25	SY	134.00			\$	43
Mulch, by machine, straw, 1" deep	\$0.32	SY				\$	
Piping, temporary, CPP, 6"	\$9.30	LF				\$	
Piping, temporary, CPP, 8"	\$14.00	LF				\$	
Piping, temporary, CPP, 12"	\$18.00	LF				\$	
Plastic covering, 6mm thick, sandbagged	\$2.00	SY				\$	
Rip Rap, machine placed, slopes	\$33.98	CY				\$	
Rock Constr. Entrance 100'x15'x1'	\$3,000.00	Each				\$	
Rock Constr. Entrance 50'x15'x1'	\$1,500.00	Each				\$	
Sediment pond riser assembly	\$1,695.11	Each				\$	
Sediment trap, 5' high berm	\$15.57	LF				\$	
Seddinent trap, 5' high berm w/spillway incl. riprap	\$59.60	LF				\$	
Sodding, 1" deep, level ground	\$5.24	SY				\$	
Sodding, 1" deep, sloped ground	\$6.48	SY				\$	
Straw bales, place and remove Hauling and disposal	\$600.00 \$20.00	TON CY				\$	
Hauling and disposal Topsoil, delivered and spread	\$20.00	CY				\$	
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					TOTAL	\$	55

GENERAL ITEMS							
ITEMS	Unit Cost	Unit				Cost	t
Fencing, chain link, 6' high	\$18.89	LF				\$	-
Fencing, chain link, corner posts	\$111.17	Each				\$	
Fencing, chain link, gate	\$277.63	Each				\$	
Fencing, split rail, 3' high (2-rail)	\$10.54	LF				\$	
Fencing, temporary (NGPE)	\$1.20	LF				\$	
Signs, sensitive area boundary (inc. backing, post, install)	\$28.50	Each				\$	
					TOTAL	\$	
OTHER				(Construction Cos	st Subtotal)	\$	10,625.5
	Percentage						
ITEMS	of Construction	Unit				0	
	Construction	Unit				Cost	1
Mobilization	10%	1				\$	1,062.
Contingency	30%	1				\$	3,187.
					TOTAL	\$	4,250.
AINTENANCE AND MONITORING	longer mon case basis f	itoring and main	tenance terms. applications. N	ements may be requi This will be evaluate lonitoring and mainta	ed on a case-by-	_	
Maintenance, annual (by owner or consultant)							
Less than 1,000 sq.ft. and buffer mitigation only	\$ 1.08	SF		(3 X SF total for 3 annual events; Includes monitoring)		\$	
Less than 1,000 sq.ft. with wetland or aquatic area	\$ 1.35	SF		(3 X SF total for 3 annual events; Includes monitoring)		\$	
mitigation Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of buffer mitigation	\$ 180.00	EACH	5.00	(4hr @\$45/hr)		\$	900.
Larger than 1,000 sq. ft. but less than 5,000 sq.ft. of wetland or aquatic area mitigation	\$ 270.00	EACH		(6hr @\$45/hr)		\$	
Larger than 5,000 sq.ft. but < 1 acre -buffer mitigation only	\$ 360.00	EACH		(8 hrs @ 45/hr)		\$	
Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic area mitigation	\$ 450.00	EACH		(10 hrs @ \$45/hr)		\$	
Larger than 1 acre but < 5 acres - buffer and / or wetland or aquatic area mitigation	\$ 1,600.00	DAY		(WEC crew)		\$	
Larger than 5 acres - buffer and / or wetland or aquatic area mitigation	\$ 2,000.00	DAY		(1.25 X WEC crew)		\$	
Monitoring, annual (by owner or consultant)							
Larger than 1,000 sq.ft. but less than 5,000 wetland or buffer mitigation	\$ 720.00	EACH	5.00	(8 hrs @ 90/hr)		\$	3,600.
Larger than 5,000 sq.ft. but < 1 acre with wetland or aquatic area impacts	\$ 900.00	EACH		(10 hrs @ \$90/hr)		\$	
Larger than 1 acre but $<$ 5 acres - buffer and $/$ or wetland or aquatic area impacts	\$ 1,440.00	DAY		(16 hrs @ \$90/hr)		\$	
Larger than 5 acres - buffer and / or wetland or aquatic area impacts $$	\$ 2,160.00	DAY		(24 hrs @ \$90/hr)		\$	
			-		TOTAL	\$	4,500.
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					Total		\$19,375.7