Scope of Services

Phase 3 Airport Creek Supplemental Planting
and Hessel Creek Monitoring at Charles M.

Schulz – Sonoma County Airport





Scope of Services Phase 3 Airport Creek Supplemental Planting and Hessel Creek Monitoring at Charles M. Schulz – Sonoma County Airport

DRAFT Volume No. 1 July 2025 Sonoma County, California Contract No.: TO 17

RS&H No.: 1053-1958-017

Prepared by RS&H California, Inc. at the direction of Sonoma County



INTRODUCTION

In accordance with Element 3 of the Supplemental Mitigation and Monitoring Plan for the Runway Safety Enhancement Project, RS&H California, Inc. (RS&H) is providing this scope and fee proposal to Sonoma County (County) for invasive species control and coyote brush planting (Phase 3) at Airport Creek and monitoring of mitigation at Hessel Creek (Proposed Project at Charles M. Schulz – Sonoma County Airport (Airport). RS&H will coordinate and oversee the Laguna de Santa Rosa Foundation, who will perform the supplemental planting and invasive species management activities.

SCOPE OF SERVICES

The following scope of services has been developed in support of the Mitigation and Monitoring Plan for the Runway Safety Enhancement Project.

Task 1 Maintenance and Invasive Species Control

Invasive Species Control - MAINTENANCE

The main focus of the Invasive Species Control strategy is to target Harding grass (Phalaris aquatica) and Himalayan blackberry (Rubus armeniacus) so that these two invasive species do not dominate the understory and will be easy to keep under control in the longer term with minor annual maintenance. There may be some other invasive species that will be controlled, concurrently, if they are deemed to hinder native understory establishment and/or cover.

Treatments will be performed according to CA licensed Pest Control Advisor Recommendations (PCR's), which are updated annually. There will be two chemical treatments performed each Maintenance Year included within this Scope - Years 2 and 3.

Coyote Bush Planting - MAINTENANCE

Maintenance will be performed in 2026 (Year 2) and 2027 (Year 3). Maintenance activities will include, but are not limited to, the following activities.

- Periodic site health checks for planning maintenance activities
- Hand weeding
- Weedeating and mowing of non-native grasses, weeds, and invasive species.
- Operational checks and maintenance of the drip irrigation system. (Note: Extensive damage to drip irrigation lines noted during a January 2024 site visit. Frequent inspections and maintenance of the drip irrigation is included in the costs).
- Twice annual herbicide treatments of invasive species in accordance with specifications contained in the project-specific PCR.
- Supplemental mulching of plantings, as needed.
- Annual monitoring and recommendations.
- Irrigation system decommissioning and removal at end of project term.

Task 2 Hessel Creek Monitoring

All planting and in-stream improvements were completed in 2018. All maintenance and performance monitoring required under the Mitigation and Monitoring Plan is ongoing. This scope of work covers monitoring and maintenance for years 6 through 10.

- 1. Removal and control of Himalayan blackberry (*Rubus armeniacus*) plants throughout the site.
- 2. Installation of erosion control measures in blackberry removal areas.
- 3. Planting and seeding of riparian vegetation to re-establish, rehabilitate, and enhance approximately 4.02 acres of riparian woodland along both sides of Hessel Creek on the site.
- Irrigation and maintenance of all riparian plantings to allow for successful establishment; installation of replacement plantings as needed to attain performance criteria following planting.
- 5. Biological monitoring and maintenance of the plantings for a 10-year period in accordance with federal and state permit requirements; preparation of annual monitoring reports documenting the results of the monitoring.

Task 3 Project Management

RS&H will provide project management for the maintenance, invasive species control, and monitoring tasks under this task order. Project management tasks will consist of maintenance and monitoring of the overall project for the duration of the assignment. Project scope and budget adherence will be of primary concern as part of this task. RS&H will use the following methods to ensure that the scope and budget adherence goals are met: project scope monitoring, project budget maintenance, direct client coordination (through telephone conversations, e-mail correspondence and meetings), QA/QC reviews, and general project documentation.

FEE

RS&H will complete the scope of work for time and materials not-to-exceed \$231,911 (see Attachment 1).



Sonoma County

Charles M. Schulz – Sonoma County Airport

Phase 3 Airport Creek Supplemental Planting and Hessel Creek Monitoring

Attachment 1 - Fee Proposal

	D. Full	K.	Bouler	J. (Gholson
Labor Title Category:	Contract Manager	Sr. En	v Planner	Adn	nin Assis
Proposed Rate:	\$ 485.00	\$	250.00	\$	95.00

1	Maintenance and Invasive Species Control	0		6	0		6
2	Hessel Creek Monitoring	0		6	0		6
3	Project Management	0		24	6		30
	Total Hours	0		36	6	0	42
	Labor Cost	\$	-	\$ 9,000.00	\$ 570.00	\$ -	\$ 9,570.00
	Other Direct Non-Labor Costs:						
	Subconsultants	Labor		ODCs			
	Laguna de Santa Rosa Foundation - Phase 3 Airport Creek Supplemental Planting	\$ 72,2	233	\$ -			\$ 72,233
	Laguna de Santa Rosa Foundation - Hessel Creek	\$ 150,1	108	\$ -			\$ 150,108
	Total Subconsultant Cost						\$ 222,341

\$ 231,911



900 Sanford Road Santa Rosa, CA 95401 Ph. 707.527.9277 Fx. 707.527.5075 www.LagunaFoundation.org

Scope of Work: Airport Creek Supplemental Planting and Invasive Species Management, **Phase Three** - Maintenance

Prepared for:

Charles M. Schulz - Sonoma County Airport
Karin Bouler
Senior Environmental Planner/Project Manager
RS&H
311 California St., Suite 720
San Francisco, California 94104
Karin.Bouler@rsandh.com
Prepared by:
Brent Reed
Laguna de Santa Rosa Foundation
brent@lagunafoundation.org

July 22, 2025

This Scope of Work covers work to be performed by the Laguna de Santa Rosa Foundation in accordance with Element 3 of the Supplemental Mitigation and Monitoring Plan for the Runway Safety Enhancement Project. Element 3 consists of the following sub-elements:

- 3.1 Invasive Species Control (MAINTENANCE PHASE)
- 3.2 Coyote Bush Planting (MAINTENANCE PHASE)

3.1 Invasive Species Control - MAINTENANCE

The main focus of the Invasive Species Control strategy is to target Harding grass (*Phalaris aquatica*) and Himalayan blackberry (*Rubus armeniacus*) so that these two invasive species do not dominate the understory and will be easy to keep under control in the longer term with minor annual maintenance. There may be some other invasive species that will be controlled, concurrently, if they are deemed to hinder native understory establishment and/or cover.

Treatments will be performed according to CA licensed Pest Control Advisor Recommendations (PCR's), which are updated annually. There will be two chemical treatments performed each Maintenance Year included within this Scope - Years 2 and 3.

3.2 Coyote Bush Planting - MAINTENANCE

Maintenance will be performed in 2026 (Year 2) and 2027 (Year 3). Maintenance activities will include, but are not limited to, the following activities.

- Periodic site health checks for planning maintenance activities
- Hand weeding
- Weedeating and mowing of non-native grasses, weeds, and invasive species.
- Operational checks and maintenance of the drip irrigation system. (Note: Extensive damage to drip irrigation lines noted during a January 2024 site visit. Frequent inspections and maintenance of the drip irrigation is included in the costs).
- Twice annual herbicide treatments of invasive species in accordance with specifications contained in the project-specific PCR.
- Supplemental mulching of plantings, as needed.
- Annual monitoring and recommendations.
- Irrigation system decommissioning and removal at end of project term.

Invoicing

Work will be billed at a time and materials, not to exceed \$72,233

See the Cost Estimate table below for a breakdown of costs by task.

Cost Estimate: Airport Creek Supplemental Mitigation Plan: Invasive Species Control and Coyote Bush Planting

Phase Three: Maintenance				
		Mi +		
Year 2 Maintenance, 2026	Personnel	Equip	Supplies	Subtotal
Maintenance, Irrigation, Invasive Species				
Treatments	\$22,844	\$5,860	\$546	\$29,251
Total Cost				\$29,251
		Mi +		
Year 3 Maintenance, 2026	Personnel	Equip	Supplies	Subtotal
Maintenance, Irrigation, Invasive Species				
Treatments, Decommission	\$21,920	\$6,015	\$601	\$28,536
Total Cost				\$28,536
Phase 3, Maintenance - Subtotal	\$57,786			
Administration (15%)	\$8,668			
Contingency (10%)	\$5,779			
Grand Total	\$72,233			

^{*}The costs within this proposal include a 5% increase for each new calendar year with initial cost based on 2024 Fee Schedule (see Fee Schedule 2024, below)

Laguna Foundation		
Fee Schedule 2024		
Personnel	Hourly Rate	
Director	\$150.00	
Manager	\$125.00	
Supervisor/Specialist	\$90.00	
Technician	\$75.00	
Herbicide Rate/Prevailing Wage	\$100.00	
Vehicle, Tools and Equipment	Rate	Unit
Work Truck	\$100.00	day
Personal Vehicle	IRS Rate	mile
Flatbed Trailer	\$50.00	day
Water Trailer	\$150.00	day
Utility Trailer	\$30.00	day
ATV	\$150.00	day
Spray Rig (ATV-mounted)	\$50.00	day
Tractor (35 hp)	\$400.00	day
Brush Mower	\$110.00	day
Brush Cutter (String Trimmer)	\$75.00	day
Chainsaw	\$50.00	day
Small equipment/Hand Tools	\$25.00	day
Project Consumed Materials	Cost + 10%	
Rentals	Cost + 10%	



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June 28, 2024

Karin Bouler RS&H 369 Pine Street, Suite 610 San Francisco, California 94104

Subject: Contract Amendment for Hessel Creek Maintenance and Monitoring Tasks

Dear Karin,

The Laguna de Santa Rosa Foundation (Foundation) has been under contract to conduct planting, blackberry removal, and biological monitoring and maintenance at the Hessel Creek Riparian Mitigation Site since 2017. The work has been conducted in accordance with the *Revised Mitigation and Monitoring Plan, Charles M. Schulz – Sonoma County Airport Runway Safety Enhancement Project, Sonoma County, California* (MMP). The contract also includes implementation of the *Riparian Habitat Zone Interim Resource Management Plan.*

All planting and in-stream improvements were completed in 2018. All maintenance and performance monitoring required under the MMP has been completed through Year 5 and is ongoing. The original contract was approved for a lump sum amount of \$695,130.

The original scope of work included the following elements:

- 1. Removal and control of Himalayan blackberry (Rubus armeniacus) plants throughout the site.
- 2. Installation of erosion control measures in blackberry removal areas.
- 3. Planting and seeding of riparian vegetation to re-establish, rehabilitate, and enhance approximately 4.02 acres of riparian woodland along both sides of Hessel Creek on the site.
- 4. Irrigation and maintenance of all riparian plantings to allow for successful establishment; installation of replacement plantings as needed to attain performance criteria following planting.
- Biological monitoring and maintenance of the plantings for a 10-year period in accordance with federal and state permit requirements; preparation of annual monitoring reports documenting the results of the monitoring.

It has come to our attention that an additional \$150,108 intended to cover the performance monitoring performed by subcontractor Prunuske Chatham, Inc. (PCI) was inadvertently excluded from the original contract. The budget in Exhibit B included PCI costs for initial site preparation and removal and control of blackberry but inadvertently left off PCI costs for performance monitoring in Years 0-10 and storm monitoring. The Foundation has subsequently been reimbursing PCI for their monitoring costs for Years 0-5 out of the incorrect budget, which has reduced the balance available for remaining tasks through Year 10.

To cover the remaining maintenance and monitoring tasks in Years 6 through 10 to be completed by both the Foundation and PCI, we are requesting that the contract be amended to incorporate the correct amount of PCI's Proposal for Monitoring Services of \$150,108. This would bring the total contract amount to \$845,238.

For your reference, Exhibit A contains the original contract for \$695,130; the work that will be continued or carried out between 2024 and 2027 is outlined in Sections 6 and 7. Exhibit B contains the budget from the original contract, annotated to include the missing performance monitoring costs by PCI. Exhibit C contains the original performance monitoring budget from PCI.

We greatly appreciate your attention to and consideration of this matter. Please feel free to contact our project lead, Brent Reed by e-mail at brent@lagunafoundation.org or by phone at (707) 888-9464 with any questions.

Sincerely,

Anne Morkill Executive Director

Enclosed:

Exhibit A. 2017-2027 Hessel Creek Agreement

Exhibit B. Hessel Creek Corrected Budget

Exhibit C. PCI Performance Monitoring Budget

Laguna de Santa Rosa Foundation, Sonoma County Airport Runway Safety Area Improvements Riparian Mitigation Proposal

Exhibit B		Equip.			Labor			Prunuske	Chatham,	Inc.	
EXIIIDIL D	Supplies	usage &	Director	Manager	Prevailing	Field sup	Field tech	Operator	Journey	Foreman	Totals
		mileage	\$110	\$95	wage \$85	\$75	\$55	\$103	man \$85	\$115	
Site Preparation											
Mowing, fencing, staking	\$2,503	\$4,734	\$2,200	\$6,840	\$14,960				\$680	\$920	\$31,237
Initial Removal											
Masticate, handcrew, Mow	\$1,250	\$12,158	\$880	\$5,320	\$17,000			\$6,592	\$5,440		\$36,608
Erosion Control											
COIR mats, seeding	\$9,099	\$3,558	\$1,320	\$6,080	\$10,880			\$1.648	\$6,800	\$5,520	\$30,937
Subsequent blackberry control											
Treating resprouts	\$1,000	\$4,165	\$440	\$4,560	\$16,320						\$26,485
										subtotal	\$125,267
Planting											
Planning and site prep.	\$874	\$9,784	\$880	\$4,496	\$12,240						\$28,274
Planting	\$10,930	\$3,400	\$1,320	\$8,263	\$58,970						\$104,883
Irrigation Installation	\$20,542	\$1,475	\$459	\$1,552	\$10,920						\$34,948
										subtotal	\$168,104
Maintenance											
Year 1	\$2,195	\$8,650	\$1,346	\$7,752	\$64,505						\$84,448
Year 2	\$1,930	\$9,065	\$916	\$7,907		\$20,600	\$17,395				\$57,813
Year 3	\$1,830	\$8,270	\$934	\$7,662		\$18,465	\$14,008				\$51,169
Year 4	\$1,720	\$6,980	\$953	\$7,815		\$16,886	\$12,383				\$46,737
Year 5	\$1,370	\$10,390	\$972	\$7,971		\$17,886	\$20,403				\$58,993
Year 6	\$100	\$116		\$214		\$2,838	\$2,106				\$5,374
Year 7	\$100	\$116		\$218		\$2,895	\$2,148				\$5,477
Year 8	\$100	\$116		\$223		\$2,953	\$2,191				\$5,582
Year 9	\$100	\$116		\$227		\$3,012	\$2,235				\$5,690
Year 10	\$100	\$116		\$232		\$3,072	\$2,280				\$5,799
										subtotal	\$327,081
								PCI	Monitoring	Costs	LF Costs
Monitoring											
Year 0 (planting)		\$76	\$236	\$6,840						\$7,523	\$7,152
Year 1		\$254	\$241	\$5,246						\$12,134	\$5,921
Year 2		\$308	\$245	\$9,488						\$21,241	\$10,042
Year 3		\$254	\$250	\$5,646						\$11,054	\$6,150
Year 4		\$254	\$255	\$5,759						\$6,551	\$6,268
Year 5		\$308	\$260	\$10,069						\$25,599	\$10,638
Year 7		\$308	\$271	\$10,476						\$21,785	\$11,055
Year 10		\$308	\$2,011	\$12,970						\$27,026	\$15,289
Storm monitoring			\$486	\$1,678						\$17,196	\$2,164

Subtotal \$74,678

Corrected subtotal PCI \$150,108 + LF \$74,678 = \$224,786



	Hour	Hour	Hour	Hour	Hour	Hour	Day	Day	Dollars	
	Hour	Hour		Tioui	Hour	rioui	Day	Day	Dollars	
			Vegetation Ecologist/			Staff Scientist,				
		Senior Wildlife	Project	Planning	Registered Civil	Designer or		GPS or Survey	Project	Line Item
	Principal	Biologist	Manager	Ecologist	Engineer	Planner I	Vehicle	Equipment	Consumables	Subtotal
	\$180	\$120	\$120	\$105	\$140	\$105	\$75	\$150	1.15	Cost
	,				,					
Year 0 - 2017 - "As Builts"										
Suspended sediment sampling and testing at first large storm									\$450	
(Criterion 14)				4		8		2	3430	\$2,078
Plantings "as built conditions" set up photomonitoring sites and										
create list of initial plant conditions (Criterion 7; Additional Monitoring 3)			4	4			1	1		\$1,12
	•						1	1		
Year 0 Report	2	6	4	16						\$3,240
Project management and coordination	2		6							\$1,080
Baseline and Year O subtotal	4	6	14	24	0	8	1	3	\$450	\$7,52
Year 1 - 2018										
Vegetation community assessment using Bonham transect			16	12			2	1		
(Criteria 6, 8-12), invasive mapping			10	12			2	1		\$3,480
Mitigation plantings (Criterion 7: Plant Survival & Additional										
Monitoring 3: Photomonitoring)				4						\$420
Amphibian Daytime Survey (Additional Monitoring 1)										4
		7					1			\$915
Amphibian Nighttime Survey (Additional Monitoring 1)		4				4	1		\$25	\$1,004
Bird Nesting Survey (Additional Monitoring 2)		7					1		\$23	\$915
Annual Report	2	6	4	24			1			\$4,080
•		6		24						
Project management and coordination	2		8			_				\$1,320
Year 1 subtotal	4	24	28	40	0	4	5	1	25	\$12,13
Year 2 - 2019										
Accompany LSA for Airport/Reference Site Monitoring			16	16			2			\$3,750
CRAM Assessment (Buffer Condition - Criterion 1, Streambed -										-
Criteria 3 & 4, Hydrology - Criteria 2 & 5]			8	8			1			\$1,87
Stream stability longitudinal and cross sections; visual				16	20		2	2		¢4.02/
observations of erosion/aggradation (Criterion 2)				16	20		2	2		\$4,930
Suspended sediment sampling and testing at first large storm (Criterion 14)				4		8		2	\$450	\$2,078
(Citterion 14)				4		0		2		32,076
CRAM vegetation community assessment and Bonham transect										
(Criteria 6, 8-12), invasive mapping			16	12			2	1	\$25	\$3,509
Mitigation plantings (Criterion 7: Plant Survival & Additional									-	·
Monitoring 3: Photomonitoring)				4						\$420
Annual Report	2		4	24						\$3,360
Project management and coordination	2		8							\$1,320
Year 2 subtotal	4	0	52	84	20	8	7	5	\$475	\$21,24
I CUI & JUNIULUI	*	U	32	04	20	0	,	,	J4/J	741,24.



	Hour	Hour	Hour	Hour	Hour	Hour	Day	Day	Dollars	
	Houi	Houi		Houi	noui	Houi	Day	Day	Dollars	
			Vegetation Ecologist/			Staff Scientist,				
		Senior Wildlife	Project	Planning	Registered Civil	Designer or		GPS or Survey	Project	Line Item
	Principal	Biologist	Manager	Ecologist	Engineer	Planner I	Vehicle	Equipment	Consumables	Subtotal
	\$180	\$120	\$120	\$105	\$140	\$105	\$75	\$150	1.15	Cost
Year 3 - 2020										
Vegetation community assessment using Bonham transect (Criteria 6, 8-12), invasive mapping			16	12			2	1		\$3,48
Mitigation plantings (Criterion 7: Plant Survival & Additional										
Monitoring 3: Photomonitoring)				4						\$42
Amphibian Daytime Survey (Additional Monitoring 1)		7					1			\$91
Amphibian Nighttime Survey (Additional Monitoring 1)		4				4	1		\$25	\$1,00
Bird Nesting Survey (Additional Monitoring 2)		7					1		·	\$91
Annual Report	2	6	6	16						\$3,48
Project management and coordination	2		4							\$84
Year 3 subtotal	4	24	26	32	0	4	5	1	\$25	\$11,05
rear 3 subtotui		1			to the totals for co	1		1	\$25	311,03
	Aitei feai 5, a	ii additional 4.5%	above the 201	+ cost is added	to the totals for co	st-or-living incre	ases.			
Year 4 - 2021										
Vegetation community assessment using Bonham transect (Criteria 6, 8-12), invasive mapping			16	12			2	1	\$25	\$3,66
Mitigation plantings (Criterion 7: Plant Survival & Additional										
Monitoring 3: Photomonitoring)				4						\$43
Annual Report			2	12						\$1,56
Project management and coordination	2		4							\$87
Year 4 subtotal	2	0	22	28	0	0	2	1	\$25	\$6,55
Year 5 - 2022										
Accompany LSA for Airport/Reference Site Monitoring			16	16			2			\$3,91
CRAM Assessment (Buffer Condition - Criterion 1, Streambed -			_	_						44.05
Criteria 3 & 4, Hydrology - Criteria 2 & 5)			8	8			1			\$1,95
Stream stability longitudinal and cross sections; visual				16	20		2	2		\$5,15
observations of erosion/aggradation (Criterion 2) Suspended sediment sampling and testing at first large storm				10	20					73,13
(Criterion 14)				4		8		2	\$450	\$2,17
CRAM vegetation community assessment and Bonham transect			16	8			2	2		
(Criteria 6, 8-13), invasive mapping			16	8			2	2		\$3,35
Mitigation plantings (Criterion 7: Plant Survival & Additional				4						4.0
Monitoring 3: Photomonitoring)		_								\$43
Amphibian Daytime Survey (Additional Monitoring 1)		7					1		425	\$95
Amphibian Nighttime Survey (Additional Monitoring 1)		4				4	1		\$25	\$1,04
Bird Nesting Survey (Additional Monitoring 2)		7					1			\$95
Annual Report	2	6	4	24						\$4,26
Project management and coordination	2		8					_	4	\$1,37
Year 5 subtotal	4	24	52	80	20	12	10	6	\$475	\$25,59



	Hour	Hour	Hour	Hour	Hour	Hour	Day	Day	Dollars	
		Senior Wildlife	Vegetation Ecologist/ Project	Planning	Registered Civil	Staff Scientist, Designer or	•	GPS or Survey	Project	Line Item
	Principal	Biologist	Manager	Ecologist	Engineer	Planner I	Vehicle	Equipment	Consumables	Subtotal
	\$180	\$120	\$120	\$105	\$140	\$105	\$75	\$150	1.15	Cost
Year 7 - 2024										
Accompany LSA for Airport/Reference Site Monitoring			16	16			2			\$4,08
CRAM Assessment (Buffer Condition - Criterion 1, Hydrology - Criteria 2 & 5)			8	8			1			\$2,04
Suspended sediment sampling and testing at first large storm (Criterion 14)				4		8		2	\$450	\$2,26
CRAM vegetation community assessment and Bonham transect (Criteria 6, 8-12), invasive mapping			16	12			2	2	\$25	\$3,98
Mitigation plantings (Criterion 7: Plant Survival & Additional Monitoring 3: Photomonitoring)				4						\$45
Amphibian Daytime Survey (Additional Monitoring 1)		7					1			\$99
Amphibian Nighttime Survey (Additional Monitoring 1)		4				4	1			\$1,06
Bird Nesting Survey (Additional Monitoring 2)		7					1			\$99
Annual Report	2	6	4	24						\$4,44
Project management and coordination	2		8							\$1,43
Year 7 subtotal	4	24	52	68	0	12	8	4	475	\$21,78
Year 10 - 2027										
Accompany LSA for Airport/Reference Site Monitoring			16	16			2			\$4,08
CRAM Assessment (Buffer Condition - Criterion 1, Streambed - Criteria 3 & 4, Hydrology - Criteria 2 & 5)			8	8			1			\$2,04
Stream stability longitudinal and cross sections; visual observations of erosion/aggradation (Criterion 2)				16	20		2	2		\$5,37
Suspended sediment sampling and testing at first large storm (Criterion 14)				4		8		2	\$450	\$2,26
CRAM vegetation community assessment and Bonham transect (Criteria 6, 8-13), invasive mapping			16	12			2	2		\$3,95
Mitigation plantings (Criterion 7: Plant Survival & Additional Monitoring 3: Photomonitoring)				4						\$45
Amphibian Daytime Survey (Additional Monitoring 1)		7					1			\$99
Amphibian Nighttime Survey (Additional Monitoring 1)		4				4	1		\$25	\$1,09
Bird Nesting Survey (Additional Monitoring 2)		7					1			\$99
Annual report	2	6	4	24						\$4,44
Project management and coordination Year 10 subtotal	2 4	24	44	8 92	20	12	10	6	\$475	\$1,30 \$27,02



	Hour	Hour	Hour	Hour	Hour	Hour	Day	Day	Dollars	
		c i vellet	Vegetation Ecologist/		D	Staff Scientist,		000		
	Duin sin al	Senior Wildlife	Project	Planning	Registered Civil	Designer or	Makiala	GPS or Survey		Line Item
	Principal	Biologist	Manager	Ecologist	Engineer	Planner I	Vehicle	Equipment	Consumables	Subtotal
	\$180	\$120	\$120	\$105	\$140	\$105	\$75	\$150	1.15	Cost
As Needed 10-year storm years - stream stability and sediment										
monitoring										
Longitudinal survey with cross sections erosion/aggradation				16	16		2	2		
assessment (Criteria 2 and 5)				10	10		-	-		\$4,763
Suspended sediment testing after first storm (Criterion 14)				4		8		2	\$450	\$2,264
Annual Report			2	4						\$719
Project management and coordination	2			4						\$850
Storm year subtotal	2	0	2	28	16	8	2	4	\$450	\$8,597
Assume 2 storm years	4	0	4	56	32	16	4	8	\$900	\$17,195
Total Monitoring and Reporting Cost	34	126	294	504	92	76	52	35	\$3,325	\$150,108