LL1 Grant Application



Submit completed application to: Lauren Sampedro

lauren.sampedro@vlawmo.org

Applicant Information:

Name:	Kristina & Andy Swanson
Address:	35 Robb Farm Road
City/Township, State, Zip:	North Oaks, MN 55127
Phone:	612.239.6751
Email:	kdolejsi@hotmail.com

Project Summary:

			- F
ESTIMATED TOTAL PROJECT COST	\$10,294	\bigcirc	Ė
(\$)			F
AMOUNT REQUESTED	\$5,000		
(\$5,000 reg, \$7,500 curb cut)		\checkmark	
EXPECTED PROJECT COMPLETION	Fall 2023		F
(Month, Year)			
		()	

PROJECT TYPE:

	Raingarden/Infiltration Basin: Curb cut
\bigcirc	Raingarden/Infiltration Basin: Regular
	Shoreline/Streambank Stabilization and/or Restoration
\bigcirc	Filtration
\bigcirc	Other

If other, please describe the proposed project:

Project Background:

Describe the project location	256 Feet of shoreline restoration includes concrete
Describe the project location.	barriers.
Does it connect to a lake, stream,	barriers.
ditch, or wetland in VLAWMO?	Connects to Lake Gilfilan.
What is successful be addressed with	Concrete baracades, erosion control and a large
What issues will be addressed with	array of invasive plants.
this project?	

Project Background: Continued

Describe how your project	Stabilize and restore activley eroding shoreline/land area.
will support the goals of	Improve shoreline health and water supply on lake Gilfilan.
the Landscape Level 1	
Grant Program.	Reduce stormwater volume.
(See LL1 policy)	Plant native plants to create a better environment for pollinators and benefical species.
Briefly describe the planned installation and maintenance activities for your project.	Remove concrete barriers, eradicate invasive plants, restore shoreline. We will maintain by weeding and watering plants, etc. Please see additional details in the proposals attatched for additional details.

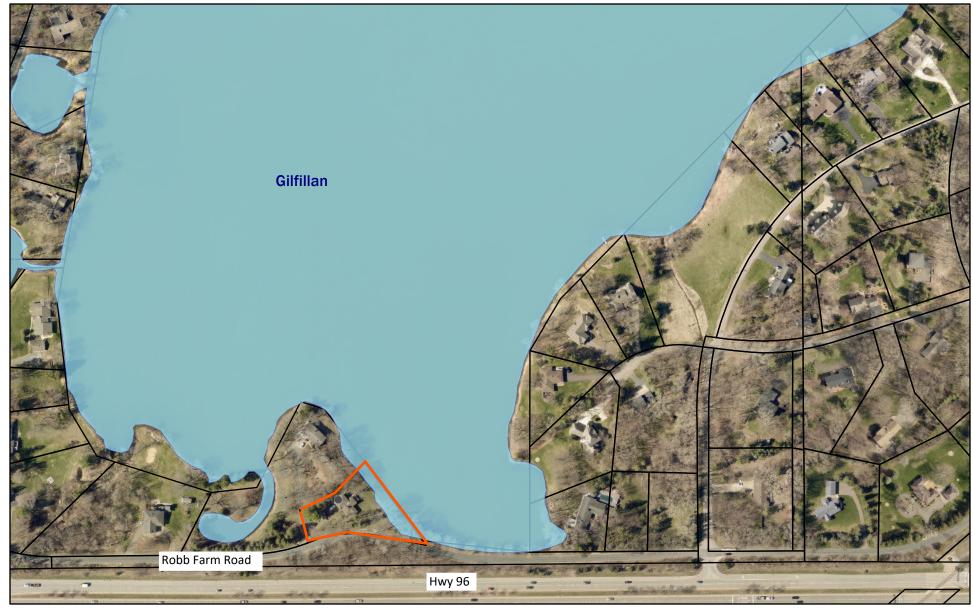
Project Specifications:

TOTAL PROPERTY AREA (Acres)	.66ac	Total PROJECT SIZE (Sq Ft)	~2,600sq ft Upland buffer+SL
IMPERVIOUS (HARD) AREA DRAINING TO PROJECT (Sq Ft):	4,874 sq ft	PERVIOUS (GRASSY, NON- PAVEMENT) AREA DRAINING TO PROJECT (Sq Ft):	14,660
DEPTH OF PRACTICE (In): Provide if project includes infiltration/filtration	N/A	BOTTOM SURFACE AREA (Sq Ft): Provide if project includes infiltration/filtration	N/A

Required Attachments:

- ⇒ Detailed drawing or plan of the proposed project. If project is complex, VLAWMO may require project final designs to be completed by a qualified professional or engineer. Drawing must include project dimensions that enable VLAWMO staff to model the project for estimated water quality benefits.
- \Rightarrow At least 2 bids for construction of proposed project.
- ⇒ Detailed project budget estimate with itemized materials and costs that equal the total project cost.

LL1 2023-05 Swanson Shoreline

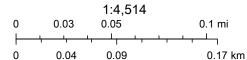


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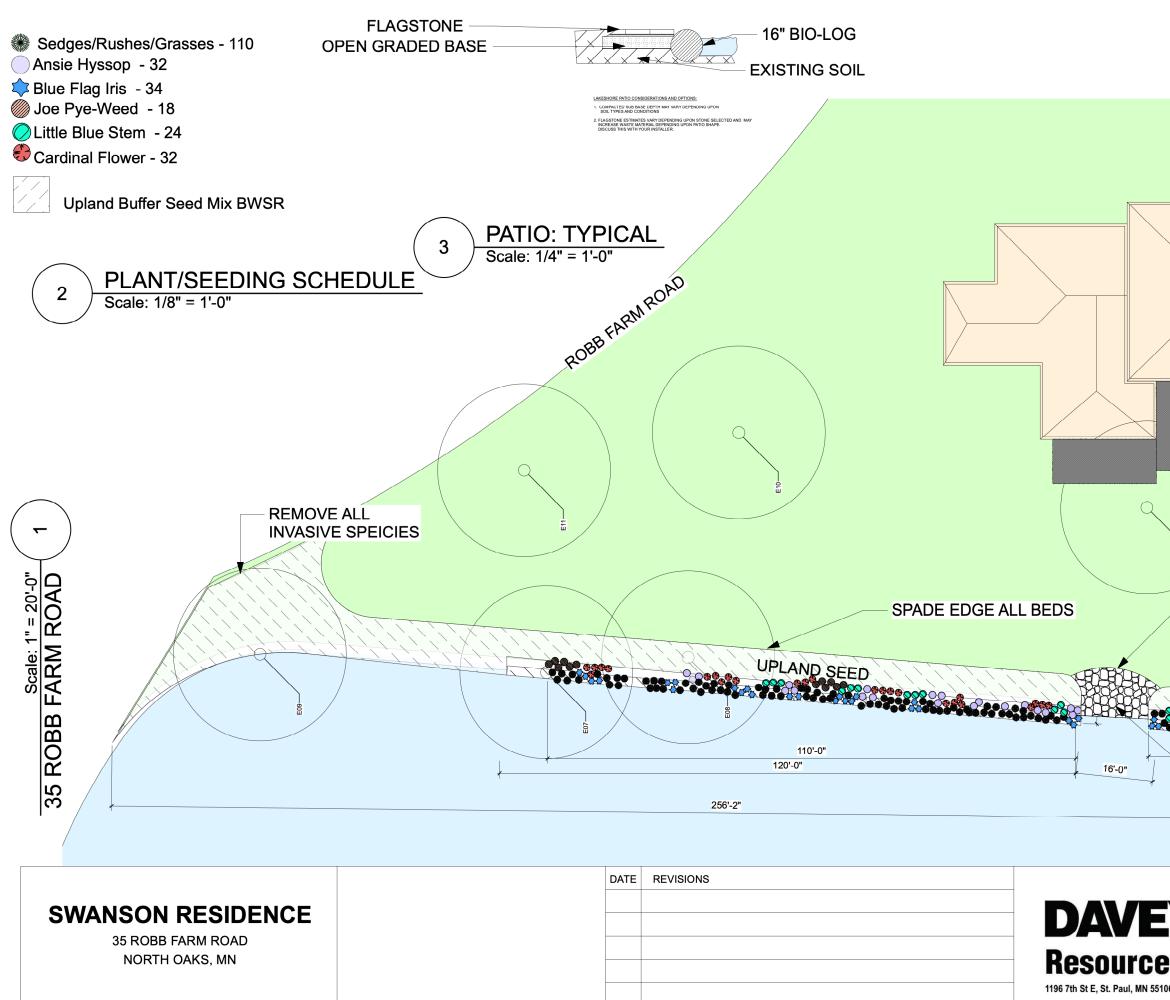
VLAWMO Boundary 2020

Project Location

VLAWMO Lakes



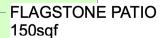
Esri, HERE, Garmin, (c) OpenStreetMap contributors, and the GIS user community, County of Ramsey, Esri, HERE, Garmin, GeoTechnologies, Inc.,





Description: Mixture W2 (BWS Seeding Rate: 5 Ib/acre (127.9 Notes: This mix is designed for

Common Name	Scientific Name	% of Mix	Seeds/ft ²	Total
orasses				
Fringed Brome	Bromus ciliatus	8.10%	1.5	0.405 PLS lb
Bluejoint Grass	Calamagrostis canadensis	1.60%	8.2	0.080 PLS lb
Virginia Wild Rye	Elymus virginicus	42.30%	3.3	2.115 PLS lb
American Manna Grass	Glyceria grandis	3.20%	4.1	0.160 PLS lb
Fowl Manna Grass	Glyceria striata	1.60%	4.7	0.080 PLS lb
Fowl Bluegrass	Poa palustris	7.10%	17.0	0.355 PLS lb
Sedges & Rushes				
Bottlebrush Sedge	Carex comosa	4.30%	2.4	0.215 PLS lb
Pointed-broom Sedge	Carex scoparia	1.00%	1.5	0.050 PLS lb
Fussock Sedge	Carex stricta	0.80%	0.8	0.040 PLS Ib
Common Fox Sedge	Carex stipata	3.20%	2.0	0.160 PLS lb
Brown Fox Sedge	Carex vulpinoidea	3.20%	5.9	0.160 PLS lb
Path Rush	Juncus tenuts	0.20%	3.7	0.010 PLS lb
Torrey's Rush	Juncus torreyi	0.60%	17.6	0.030 PLS lb
Dark Green Bulrush	Scirpus atrovirens	2.00%	16.9	0.100 PLS lb
Voolgrass	Scirpus cyperinus	0.20%	6.2	0.010 PLS lb
orbs				
Swamp Milkweed	Asclepias incarnata	5.00%	0.4	0.250 PLS lb
lat-topped Aster	Doellingeria umbellata	1.20%	1.5	0.060 PLS lb
Inneset	Fupatorium perfoliatum	0.40%	12	0.020 PLS lb
irass-leaved Goldenrod	Euthamia gramnifolia	0.20%	1.3	0.010 PLS lb
e Pye Weed	Eutrochium maculatum	0.40%	0.7	0.020 PLS lb
neezeweed	I lelenium autumnale	0.30%	0.7	0.015 PLS lb
Sawtooth Sunflower	Helianthus grosseserratus	0.60%	0.2	0.030 PLS lb
Reat Blue Lobelia	Lobelia siphilitica	0.30%	2.8	0.015 PLS lb
ionkey Flower	Mimulus ringens	0.20%	8.4	0.010 PLS Ib
/irginia Mountain Mint	Pycnanthemum virginianum	0.30%	1.2	0.015 PLS lb
Siant Goldenrod	Solidago gigantea	0.30%	1.4	0.015 PLS lb
Swamp Aster	Symphyotrichum puniceum	4.00%	5.9	0.200 PLS lb
urple Meadow Rue	Thalictrum dasycarpum	0.40%	0.1	0.020 PLS lb
Blue Vervain	Verbena hastata	1.30%	2.2	0.065 PLS lb
Common Ironweed	Vernonia fasciculata	0.50%	0.2	0.025 PLS lb
Culver's Root	Veronicastrum virginicum	0.20%	2.9	0.010 PLS lb
Golden Alexanders	Zizia aurea	5.00%	1.0	0.250 PLS lb





UPLAND SEED

REMOVE ALL INVASIVE SPEICIES

40'-3 1/2"

LAKE ACCESS	MATERIAL
 TBD	

	I			
			Date:	6/1/2023
	DRAWN BY	СН		
	CHECKED	Checked		
	APPROVED	Approved	L	100
e Group	SCALE	1" = 20'-0"		
106 • 651-202-3662		~		



Restoration Proposal for:

Ms. Kristina Dolejsi 35 Robb Farm Road North Oaks, MN

Proposal Date: August 1, 2023

Prepared by:

Bill Bartodziej M.S., Senior Restoration Ecologist Natural Shore Technologies, Inc. 612.730.1542 <u>bill.b@naturalshore.com</u>



Project Summary

- 1. Project site: shoreland 200' L x 10' W on average (2,000 SF) see attached map
- 2. Site assessment and plan development include: detailed site preparation methods, plant selection, and a project timeline and work schedule for our staff. Because most of projects involve the establishment of natural buffers, site drawings and planting plans are not necessary. We have found that over time, native plants will seek out the optimal micro-habitats and flourish. However, project plan drawings can certainly be provide at an additional cost upon client request.
- 3. Delineate and verify total restoration project area.
- 4. Kill selected turf areas with an herbicide appropriate for upland or aquatic use. A licensed herbicide applicator from Natural Shore Technologies will apply the treatment.
- 5. Cut and remove any weedy plant material from planting area.
- 6. Install biologs at the base of the shore slope. (seawall will be removed by another contractor or by the landowner)
- 7. Apply a 2-3" layer of shredded hardwood mulch in areas that will be planted.
- 8. Plant selections will provide flowering throughout the growing season, with at least 25 native plant species included in the plan.
- 9. Lay out plants into plant zones per plan specifications and install at approximately 1.5' centers.
- 10. Mulch will be moved aside, plant containers installed, and a light mulch layer will be returned around the base of the plants to hold moisture.
- 11. We will use 1,000 3-4" containers for your planting.
- 12. Site monitoring will be conducted and appropriate maintenance will be provided through October, 2024.

Installation note: Prior to installation, please let us know of any underground utility lines, sprinkler lines, or other obstacles in the restoration area. It is the owner responsibility to clearly mark lines, and NST will not be held liable for any damages.

Preliminary Plant Species List

Common Name	Scientific Name	Height (ft)	Color	Bloom Time
EMERGENT				
Spike rush	Eleocharis palustris	1 to 2	Brown	June-July
Broadleaved arrowhead	Sagittaria latifolia	4	White	July - August
Hard Stem Bulrush	Schoenoplectus acutus	4 to 6	Brown	July - August
Soft Stem Bulrush	Schoenoplectus tabernaemontani	4 to 6	Brown	July - August
Giant burreed	Sparganium eurycarpum	3 to 5	Green/Brown	July - August
WET MEADOW				
Grasses, Sedges, Rushes		_		
Canada Blue Joint	Calamagrostis canadensis	3 to 6	Tan-Green	July - August
Bebb's Sedge	Carex bebbii	2 to 3	Green	May - June
Bottlebrush Sedge	Carex comosa	2 to 3.5	Green	May - June
Porcupine Sedge	Carex hystricina	2 to 3.5	Green	May - June
Tussock Sedge	Carex stricta	2 to 3	Green	May - July
Fox Sedge	Carex vulpinoidea	1.5 to 2.5	Green	May - June
Green Bulrush	Scirpus atrovirens	2 to 5	Green-Brown	July - August
Woolgrass	Scirpus cyperinus	3 to 5	Brown	July-September
Forbs	_			
Sweet flag	Acorus calamus	2	Green	May - July
Canada Anemone	Anemone canadensis	1 to 2	White	May - July
Swamp Milkweed	Asclepias incarnata	3 to 4	Lavender	June - August
Turtlehead	Chelone glabra	2 to 3	White	August -
Boneset	Eupatorium perfoliatum	2 to 4	White	October June-July
Joe-Pye Weed	Eutriochium maculatum	2 to 4 3 to 6	Purple	June-July
Sneezeweed	Helenium autumnale	4 to 5	Yellow	August -
	IICICIIIUIII autuiiiiiaiC	т Ю J	I CHOW	September
Blue Flag Iris	Iris versicolor	2 to 3	Blue	June - July
-				•

Meadow Blazing Star	Liatris ligulistylis	2 to 3.5	Purple	June - July
Cardinal Flower	Lobelia cardinalis	3 to 4	Red	June - October
Blue Lobelia	Lobelia siphilitica	1.5 to	Blue	June - October
		2.5		
Mountain Mint	Pycnanthemum	2 to 3	White	July - September
	virginianum			
New England Aster	Symphyotrichum novae-	3 to 5	Purple	September-
	angliae			October
Blue vervain	Verbena hastata	2 to 5	Purple	July-August
Culvers Root	Veronicastrum	3 to 5	White	July-August
	virginicum			

PRAIRIE

Grasses, Sedges

Side Oats Grama	Bouteloua curtipendula	1.5 to 2.5	Red-green	July - September
Blue Grama	Bouteloua gracilis	.5 to 1	Green-purple	July-September
June grass	Koeleria macrantha	1 to 2	Amber	May-June
Little Bluestem	Schizachyrium scoparium	1.5 to 3	Amber	July - September
Indian Grass	Sorghastrum nutans	4 to 6	Amber	July - September
Prairie Dropseed	Sporobolus heterolepis	1.5 to 3	Green	August - October
Forbs				
Anise Hyssop	Agastache foeniculum	2 to 4	Purple	June-October
Prairie Onion	Allium stellatum	1 to 1.5	Pink	July - September
Butterfly Milkweed	Asclepias tuberosa	1 to 2	Orange	June -
				September
Blue wild indigo	Baptisia australis	4.0	Blue	May-July
Prairie Coreopsis	Coreopsis palmata	1.5 to	Yellow	June -
		2.5		September
Purple coneflower	Echinacea purpurea	4.0	Purple	July-September
Rattlesnake master	Eryngium yuccifolium	4.0	White	July-September
Oxeye	Heliopsis helianthoides	5.0	Yellow	June-September
Prairie blazing star	Liatris pycnostachya	2 to 5	Purple	August -
				September
Wild bergamot	Monarda fistulosa	4.0	Pink-Purple	July-September
Foxglove Beardtongue	Penstemon digitalis	3 to 4	White	July-August

Prairie Phlox	Phlox pilosa	1.5 to 2	Pink	May - June
Mountain Mint	Pycnanthemum virginianum	2 to 3	White	July - September
Grey-headed Coneflower	Ratibida pinnata	5.0	Yellow	July-September
Black Eyed Susan	Rudbeckia hirta	2 to 3	Yellow	June - October
Heath aster	Symphyotrichum ericoides	2 to 4	White	August- September
Smooth blue aster	Symphyotrichum laeve	4	Blue	August-October
Aromatic aster	Symphyotrichum oblongifolium	2	Puprle	August- November
Sky Blue Aster	Symphyotrichum oolentangiense	2 to 3.5	Purple	August-October
Ohio Spiderwort	Tradescantia ohiensis	2 to 4	Blue	July - October
Hoary vervain	Verbena stricta	1 to 3	Purple	July-August
Golden Alexanders	Zizia aurea	1 to 3	Yellow	May-July

Project Cost

This bid includes project design and management, all materials, labor, and a two year maintenance plan. This is a comprehensive bid estimate and valid for thirty days. We require a 50% down payment to schedule your project.

Cost Breakdown

Site Design, Project Management, Mobilization		\$1,400.00
Site preparation, herb. trts, clearing, hauling, fine grading		\$2,210.00
Mulch and/or Erosion Control - installed, Temp. fencing	\$1,770.00	
Biologs - 16" dia., soil smoothing behind - install - 100'	\$5,250.00	
1,000 Plants - 3" and 4" - containers @ 1.5' spacing		\$4,800.00
Maintenance Plan - 3 visits - 2022		- \$540.00-
Maintenance Plan - 5 visits - 2023		\$900.00
	TOTAL =	\$16,870.00
		1 15,430 eligible costs
(seawall removal conducted by another contractor or landowner)		<u>-\$900.00</u> \$16,870.00 J 15, 130 eligible Costs ZA

Site maintenance

Site maintenance includes at least 5 visits per year during the growing season to monitor and conduct activities that will ensure proper restoration establishment. We use the most appropriate, up-to-date maintenance techniques such as targeted herbicide application, hand pulling, mowing, and spot weed whipping to effectively control invasive weeds. Our lead maintenance supervisor has a B.S. in Biology and 10 years of field experience.

Watering - We will thoroughly water your site immediately after plant installation. Any necessary watering after installation is the responsibility of the owner. (Generally, normal rainfall during the growing season is adequate for native plant establishment.)

*Note we do offer long-term maintenance contracts. Over 90% of our clients use that service.

Staff Qualifications

Our company has over 50 years of combined ecological restoration experience. We are a local company that focuses on quality ecological restoration in the Metro area. Our clients vary from private estates on Lake Minnetonka, to large corporate headquarters in Eden Prairie. We also work with many city and county governments and watershed management organizations. We are fully insured.

Our specialty is lakeshore and wetland restoration. We have restored many miles of lakeshore in Minnesota, more than any other company. Please see our portfolio for examples of our restoration projects that include; shorelines, wetlands, prairies, savannas, and rain gardens.

Please see our *project photo book* at: <u>http://www.blurb.com/books/6034090-natural-shore-technologies-inc-photobook</u>

Natural Shore Technologies Plant Material

We have commercial and retail greenhouses in Maple Plain. Our plants are Minnesota native perennials that will flourish year after year. Utilizing our own plant material in our projects assure quality control. Our wetland and prairie plants are guaranteed to establish during the first growing season. Perennial plants put most of their energy into establishing root systems so please keep in mind that the first year of growth will be mainly underground. You will see some flowering the first year, but significantly more flowering during the second year of establishment.

Information about our retail native plant greenhouses located in Maple Plain is also available at: www.naturalshore.com



Using Ecology to Restore Land and Water

Guarantee

We stand by our native plant material and our ecological restoration services.

Native plants that we install are guaranteed to establish during the first growing season. Any plant material that does not make it through the first growing season will be replaced at no charge to the client.

On projects that we install and manage, we will guarantee successful establishment of your ecological restoration within three full growing seasons. This proposal provides a plan for accomplishing the restoration of the project site. If successful establishment does not occur within three growing seasons, all necessary steps will be taken to ensure the eventual success of the project, at no additional charge. For purposes of this guarantee, successful establishment is defined as follows: That the presence of at least 80% of the original seeded or planted species can be found on the site, and that the overall density of vegetation is comprised of no less than 80% native species.

The only exceptions to this guarantee have to do with plant death due to acts of God (floods or drought) the actions of others (vandalism), or animal herbivory (e.g., geese, muskrats). Watering by the owner during dry periods is necessary, and the lack of adequate watering in this circumstance may nullify this guarantee.

If these extreme circumstances do happen to occur, we will work with the client at a reduced rate to make all necessary repairs.

Our goal will always be to create successful, long-term partnerships with our clients. Our guarantee is the best in the business, and provides you with a clear understanding that we are here to fully support your ecological restoration endeavor.

Contract

- A down payment of \$8,400 is required to schedule your project. ٠
- The remainder of the project cost is due at project completion. Any unpaid amount beyond the 30 day period after • billing will incur a 3% monthly finance charge.
- Please note that this proposal is valid for 30 days from the date on this Contract. ٠

If you would like to proceed with the above outlined project, please sign the contract below.

Client name: Ms. Kristina Dolejsi

Contract Value: \$16,870.00

Signed: _____ Date _____

Contractor: Natural Shore Technologies, Inc.

Signed:

M.M. Ma

William M. Bartodziej, M.S. Senior Restoration Ecologist, Natural Shore Technologies

Please return a signed copy of this contract and a check to:

Natural Shore Technologies, Inc. 6275 Pagenkopf Rd. Maple Plain, MN 55359



Using Ecology to Restore Land and Water

Contract Date: Contract Date for 30 Day term



Corporate Headquarters 295 South Water Street, Suite 300 Kent, OH 44240 800-828-8312

> Local Office 1196 7th St E St. Paul, MN 55196 651-202-3662

June 1, 2023

Kristina Dolejsi 35 Robb Farm Road North Oaks, MN 55330

RE: Shoreline Restoration

Dear Kristina

Thank you for contacting Davey Resource Group, Inc. "DRG" to provide you with this proposal to work with with you on your shoreline restoration planting. This proposal is inclusive of all labor, material, and equipment required to perform work described in the RFP.

This proposal can be implemented by either issuing a purchase order, or by signing the Authorization to Proceed below and returning to our office.

If you have any questions or wish to arrange for a meeting to discuss this scope of work and more specifically the treatment methods and areas, please call our office at **651.202.3662** or my cell at **651-253-2157**.

Sincerely,

Com R-+

Chuck Hanna Principal Consultant Davey Resource Group, Inc. www.daveyresourcegroup.com

US SIteWorks DRG Proposal Page 1

Authorization to Proceed

SHORELINE RESTORATION

1. Buckthorn removal and treatment along shoreline as shown on	alan \$2 000 00
1. Duckthorn removal and treatment along shorenne as shown on	
2. Removal and disposal of concrete barriers along shoreline:	_\$3,800.00
3. Installation of 19 - 16" Coconut Fiber Biologs, staked and tied	\$5,035.00
4. 230 sqy of sod removal and disposal (Spade Edge)	\$1,725.00
5. Grading with existing soils to back of bio logs	\$480.00
6. Installation of 249 native plugs as per plan	\$871.50
7. Installation of 5 - #5 native shrubs	\$300.00
8. Installation of Upland Seed Mix 2,400 sqf	\$390.00
9. Installation of 255 SQY Category 3 Straw Blanket	\$892.50
10. Site Restoration	\$600.00
Total Project Cost	\$16,094.00
	\$ 10,294 et
SHORELINE PATIO	

1. Install 150 sqf Chilton Patio over 6" of open graded rock.

Any additional services requested, outside of the scheduled maintenance as described above shall be invoiced at \$95.00 per hour plus material. Prices above do not include appropriate sales tax, which will be added at the time of invoice. DRG may make recommendations to the client as issues occur. Any additional request for services shall be done in writing or electronically to benjamin.rietz@davey.com.

By signing this form, I do hereby acknowledge acceptance of the scope of work and associated fee, as well as the terms and conditions and limited warranty contained herein. Furthermore, my signature authorizes the work to be performed.

Client Name:

Authorizing Signature: _____

costs y 1

,9750.00

Title:

Date:

Davey Resource Group, Inc.

Name/Title:

Date:

TERMS AND CONDITIONS

- All pricing is valid for 30 days from the date of this proposal, after which time we reserve the right to amend fees as needed.
- Time and materials (T&M) estimates may fluctuate and will be billed accordingly. Fixed fee contract prices will be billed as shown.
- Invoicing will be submitted monthly for work performed, unless otherwise agreed upon.
- Payment terms are net 30 days.
- If prevailing wage requirements are discovered after the date of this proposal, we reserve the right to negotiate our fees.
- Plant materials are subject to availability and substitutions may be made as necessary.
- All trees and shrubs are warranted for one year from the date of the project completion.
- Warranty does not cover lack of proper care, animal, vehicle, storm, drought, vandalism or human-caused damage.
- The client is responsible for any permit fees, taxes, and other related expenses, unless noted as being included in our proposal.
- The client shall provide 48 hours' notice of any meetings where the consultant's attendance is required.
- Unless otherwise stated, one round of revisions to deliverables is included in our base fee. Additional edits or revisions will be billed on a time and material (T&M) basis.
- All reports are provided only to the client unless otherwise directed.

LIMITED WARRANTY

Davey Resource Group, Inc. ("DRG") provides this limited warranty ("Limited Warranty") in connection with the provision of services by DRG (collectively the "Services") under the agreement between the parties, including any bids, orders, contracts, or understandings between the parties (collectively the "Agreement").

Notwithstanding anything to the contrary in the Agreement, this Limited Warranty will apply to all Services rendered by DRG and supersedes all other warranties in the Agreement and all other terms and conditions in the Agreement that conflict with the provisions of this Limited Warranty.

