

CITY COUNCIL AGENDA ITEM
CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Authorizing the City Manager to Execute Amendment 1 to the Agreement with Herrera Environmental Consultants, Inc., for Additional Professional Services in Support of Phase 2 (Design) of the Hidden Lake Dam Removal Project
DEPARTMENT:	Public Works
PRESENTED BY:	Tricia Juhnke, City Engineer
ACTION:	<input type="checkbox"/> Ordinance <input type="checkbox"/> Resolution <input checked="" type="checkbox"/> Motion <input type="checkbox"/> Discussion <input type="checkbox"/> Public Hearing

PROBLEM/ISSUE STATEMENT:

On June 4, 2018, Council authorized Contract #8961 with Herrera Environmental Consultants, Inc., for Phase 2 (Design) of the Hidden Lake Dam Removal Project. Since then, three changes have occurred to the project scope: (1) trail and park user enhancements were added when Land and Water Conservation Funding (LWCF) was obtained; (2) the culvert design is more complex than assumed; and (3) new private property easements are required for construction and long-term maintenance. Amending the contract with Herrera Environmental Consultants, Inc. with Amendment 1 (#8961.01) is necessary to provide professional services to support these new project requirements. Amendment 1 will also extend the contract by one year, with a new end date of December 31, 2021, as needed to support construction scheduled for 2021.

RESOURCE/FINANCIAL IMPACT:

The estimated total cost for the increased scope under Amendment 1 is \$149,734.00. The original contract amount for Phase 2 of his project was \$722,347.00. The new contract total is \$872,081.00. Amendment 1 work is anticipated to occur over the next two years, with additional costs divided approximately as follows: \$58,433 in 2019; \$76,370 in 2020; \$14,931 in 2021.

Amendment 1 is partially funded by approximately \$24,071 of LWCF revenue. Sufficient revenue is available in the Surface Water Utility fund balance to cover the remainder of Amendment 1 costs. Surface Water Utility Capital Fund will be updated to reflect Amendment 1 increased costs as part of the 2019-2024 Capital Improvement Plan mid-biennium update.

Below is a breakdown of Phase 2 (Design) funding for the Hidden Lake Dam Removal project:

EXPENDITURES

Project Administration	\$1,101,800
<i>Project Administration – with Amendment 1</i>	<i>\$149,734</i>
Construction	\$3,359,500
<hr/>	
Total Cost	\$4,611,034

REVENUE

Land and Water Conservation Funding ¹	\$448,000
King County Flood Control District Flood Reduction Grant	\$300,000
Surface Water Capital Fund	\$3,737,371
<i>Surface Water Capital Fund – additional with Amendment 1</i>	<i>\$125,663</i>
<hr/>	
Total Revenue	\$4,611,034

¹ The LWCF grant provides partial revenue funding for Amendment 1, approximately \$24,071 for Tasks 1E, 10D, 10E, and 13D.

RECOMMENDATION

Staff recommends that Council authorize the City Manager to execute Amendment 1 to the agreement with Herrera Environmental Consultants, Inc., to add scope and increase the total contract amount from \$722,347.00 to a total contract amount of \$872,081.00 to provide additional needed professional services, and to extend the contract by one year.

Approved By: City Manager ***DT***

City Attorney ***MK***

BACKGROUND

Hidden Lake is a man-made pond located east of the intersection of NW Innis Arden Way and 10th Avenue NW, partially within Shoreview Park. The current dam and lake were constructed in 1995 by King County. Sediment deposition within the lake occurs at a high rate and as a result, the City's Surface Water Utility had been required to remove large volumes of sediment to maintain the lake as an open water feature.

On September 8, 2014, the City Council discussed this issue as presented in the Hidden Lake Management Plan Feasibility Study and authorized staff to cease dredging the lake and begin a phased approach to remove Hidden Lake Dam and re-establish Boeing Creek at Hidden Lake. The staff report for this discussion can be found at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2014/staffreport090814-8a.pdf>.

On May 23, 2016, City Council discussed the results of the alternatives analysis (done by Herrera) and authorized staff to further develop a design alternative to remove the dam, restore the channel within the lake bed, and investigate potential downstream improvements, including replacing the NW Innis Arden Way culverts. The staff report for this discussion can be found at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2016/staffreport052316-8a.pdf>.

On October 2, 2017, staff updated the City Council on continued project pre-design efforts, including a recommendation to discontinue development of Boeing Creek restoration concepts downstream of the NW Innis Arden Way culverts. The staff report for this discussion can be found at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2017/staffreport100217-8b.pdf>.

On June 4, 2018, Council authorized Contract #8961 with Herrera Environmental Consultants, Inc., for Phase 2 (Design) of the Hidden Lake Dam Removal Project. Scope of work for the original contract includes engineering design, permitting, and other support services to remove the earthen dam at Hidden Lake, replace the Boeing Creek culverts crossing NW Innis Arden Way, and restore the Boeing Creek stream channel throughout the existing lake, dam, and culvert area. The staff report for the motion to authorize this contract can be found at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2018/staffreport060418-7c.pdf>.

On May 6, 2019, Council authorized an agreement for Federal Land and Water Conservation Funding (LWCF) for \$448,000 for the Project. The staff report, which noted that the LWCF grant would require amending the project scope and adding some new project expenditures, can be found at the following link:

<http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staffreport050619-7b.pdf>.

The project is currently in the design phase, with 60% design expected in July 2019. Final design is expected to be completed by late 2020 and Hidden Lake Dam Removal construction scheduled for the summer of 2021.

DISCUSSION

The contract with Herrera Environmental Consultants, Inc. now needs to be amended to provide professional services to support three new project requirements. The three main changes that have occurred to the project scope since the original contract was executed are receipt of the LWCF, culvert design changes, and easements needs.

LWCF grant-driven changes to project scope are due to an increased amount of trail improvements and increased need for cultural resources assessments and will be funded by the grant. The grant increased project trail work from 300 linear feet to 750 linear feet. Amendment 1 Task 1E (Geotechnical Support Services for Trail Design), Task 10D (Critical Areas Report and Mitigation Plan Update for Trail Areas), Task 10E (Cultural Resources Analysis for Trail Improvements), and Task 13D (Increased Extent of Trail Improvements Design) provide additional scope as required by the LWCF grant and add \$24,071 to the Herrera contract amount.

Culvert design changes require additional scope and budget because the original scope of work assumed that the culvert would be precast and designed/detailed by the contractor. During Task 2 work under the current contract, additional culvert replacement alternatives analysis determined that a precast culvert would not be most cost-effective approach. This change in approach requires more effort from the structural subconsultant for designing and detailing the culvert. Amendment 1 Task 12 (Final Design for Culvert Replacement) and Task 14 (Project Management) provide additional scope as required by the culvert design change and add \$43,875 to the Herrera contract amount.

New private property easements were also confirmed as required for construction and long-term maintenance during development of the 30% design. The original contract scope did not provide for any easement support. Amendment 1 Task 16 (Property Easement Support Services Allowance) and Task 14 (Project Management) provide additional scope as required by the need for easements and add \$81,788 to the Herrera contract amount. The final number and content of the easements to be established is uncertain so this task work will be completed on an “as needed” basis and the Task 16 budget should be viewed as a conservatively-estimated “no to exceed” allowance amount.

The Herrera contract’s current end date is December 31, 2020. Amendment 1 will also extend the contract by one year, with a new end date of December 31, 2021, as needed to support construction scheduled for 2021.

COUNCIL GOAL ADDRESSED

This project addresses Council Goal #2, Improve Shoreline’s utility, transportation, and environmental infrastructure.

ALTERNATIVES ANALYSIS

The alternative approaches are possible:

1. Amend the Herrera contract for additional pre-design work – **recommended**
2. No action (do not authorize amendment)

The recommended alternative, to amend the Herrera contract, will allow for the project to continue. The no action alternative would leave the City poorly-equipped to satisfy LWCF grant requirements, design the culvert replacement, and obtain necessary easements and leave the project in serious risk of not being completed.

RESOURCE/FINANCIAL IMPACT

The estimated total cost for the increased scope under Amendment 1 is \$149,734.00. The original contract amount for Phase 2 of his project was \$722,347.00. The new contract total is \$872,081.00. Amendment 1 work is anticipated to occur over the next two years, with additional costs divided approximately as follows: \$58,433 in 2019; \$76,370 in 2020; \$14,931 in 2021.

Amendment 1 is partially funded by approximately \$24,071 of LWCF revenue. Sufficient revenue is available in the Surface Water Utility fund balance to cover the remainder of Amendment 1 costs. Surface Water Utility Capital Fund will be updated to reflect Amendment 1 increased costs as part of the 2019-2024 Capital Improvement Plan mid-biennium update.

Below is a breakdown of Phase 2 (Design) funding for the Hidden Lake Dam Removal project:

EXPENDITURES	
Project Administration	\$1,101,800
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RECOMMENDATION

Staff recommends that Council authorize the City Manager to execute Amendment 1 to the agreement with Herrera Environmental Consultants, Inc., to add scope and increase

the total contract amount from \$722,347.00 to a total contract amount of \$872,081.00 to provide additional needed professional services, and to extend the contract by one year.

ATTACHMENTS

Attachment A - Herrera Environmental Consultants - Hidden Lake Dam Removal Phase 2 (Design and Permitting) Amendment 1 Scope of Work and Cost Estimate

EXHIBIT A-1
CONTRACT 8961.01 AMENDMENT 1
SCOPE OF WORK

HIDDEN LAKE DAM REMOVAL PROJECT FINAL DESIGN AND PERMITTING

The City of Shoreline (City) plans to remove an existing dam impounding Boeing Creek at Hidden Lake on the western edge of Shoreview Park, restore a free-flowing stream through the lake area, and replace the existing Boeing Creek culverts beneath NW Innis Arden Way, immediately downstream of the dam site, with a wider culvert. Herrera Environmental Consultants (Herrera) is leading a team of firms in assisting the City with final design, permitting, and related tasks for the project. This scope of work describes the activities, assumptions, and deliverables associated with additional work that was not included in the original contract, that the Herrera team will perform under the following tasks:

- Task 1 - Geotechnical Analysis
- Task 10 – Environmental Permits
- Task 12 - Final Design for Culvert Replacement
- Task 13 – Trail Improvements
- Task 14 - Project Management
- Task 16 – Property Easement Support Services

Herrera will lead and coordinate the work of all tasks, with subconsultants serving in the following roles for this amended scope of work: HWA GeoSciences (HWA) – geological and geotechnical investigations and analysis; Alta Planning + Design (Alta) for trail design; Jacobs – culvert structure, roadway improvements, and traffic control design; and Cultural Resource Consultants – cultural resources assessment to support project permitting. QA/QC review work by the team is incorporated in each task as applicable, and budgeted accordingly.

This scope distinguishes between work that is added in relation to a Washington State RCO Land and Water Conservation Fund grant that the City has received, and other work unrelated to that grant.

AMENDED SCOPE OF TASKS RELATED TO LAND AND WATER CONSERVATION FUND GRANT

Task 1. Geotechnical Analysis

Task 1E. Geotechnical Support Services for Trail Design

HWA will evaluate geological conditions on the hillslope northeast of Hidden Lake where a new trail section(s) could need earth retaining structures (such as a low wooden wall) in steep terrain. This work will include a brief review of available information sources for soil and groundwater conditions on the hillslope east and northeast of Hidden Lake, a 2-hour site reconnaissance, and a summary of geotechnical considerations and associated cost implications to factor into assessment of a preferred trail alignment.

It is assumed that no memorandum or report will be necessary to document the geotechnical findings and recommendations provided in this subtask. Findings will be communicated via email.

Deliverables:

- Comments via email on trail improvement alignment option that would involve construction in steep terrain.

Task 10. Environmental Permits

Task 10D. Critical Areas Report and Mitigation Plan Update for Trail Areas

A Herrera biologist will coordinate supplemental base mapping work in the area of proposed trails northeast of the lake, and identify the species of significant trees (as defined by City code) within the area that could be affected by constructing new trail sections.

Assumptions:

- Herrera will add critical areas information associated with expanded extents of trail improvements to the draft report prepared and submitted to the City in January 2019, and submit a second draft of the report for City review.
- Herrera will respond to one set of consolidated comments from the City on the revised draft critical areas report.

Deliverables:

- Additional content for Second Draft Critical Areas Report and Mitigation Plan (Microsoft Word and Adobe PDF electronic file formats)

Task 10E. Cultural Resources Analysis for Trail Improvements

The Land and Water Conservation Grant funding requires analysis and documentation for compliance with Section 106 of the National Historic Preservation Act. Cultural Resource Consultants (CRC) will update the 2015 cultural resources assessment report prepared for the project with a current project description including the new trail improvements, results of field investigations, specific discussion of potential effects to historic properties with respect to current plans, and specific recommendations for any further work.

Assumptions:

- Deliverables will be provided electronically.
- CRC will conduct one site visit with two staff members.
- No more than one archaeological site and one historic structure will be found within the project area.

Deliverables:

- Draft cultural resources assessment report and site forms, if applicable.
- Final cultural resources assessment report and site forms, if applicable.

Task 13. Trail Improvements

Task 13D. Increased Extent of Trail Improvements Design

The LWCF grant increases the extents of trail improvements that the City can implement with this project. Specific additional work to be performed is summarized as follows:

Assumptions:

- Alta will conduct up to four site visits with up to 2 staff per visit.
- Herrera and Alta will have one additional collaborative design planning meeting prior to the preparation of the 60% design documents to provide coordinated integration of stream restoration and trail design.
- Geotechnical consultation is covered in Task 1E.
- The design is expected to include a boardwalk for at least one portion of the new trail
- Clearing for new trail sections will require re-vegetation of trailside areas, equating to one additional planting plan sheet and related construction specifications and construction cost estimate information to be prepared by Herrera for inclusion in the 60%, 90%, and final design submittals.

Deliverables:

The design drawings, specifications, and construction cost estimate input to be produced for the project will expand in complexity and geographic area to capture the increased extents of trail improvements. In addition to the deliverables set forth in the original contract scope of work for Tasks 13B and 13C, the following will be produced:

- Revised trail alignment/layout site assessment summary for the 30% design reflecting new trail alignments and confirming the character of construction materials and methods
- Additional drawing sheet details

AMENDED SCOPE OF TASKS NOT RELATED TO LAND AND WATER CONSERVATION FUND GRANT

Task 1A. Supplemental Geotechnical Explorations and Analysis

The geotechnical analyses needed to assist in design of soldier pile walls and headwalls associated with the new culvert structure are more intensive than originally scoped, due to increased height of proposed walls. This requires iterative analysis work as the wall dimensions are adjusted to optimize constructability and cost.

Deliverables:

- Additional analyses to be documented in the geotechnical analysis memorandum described in the original contract scope of work in this subtask.

Task 12. Final Design for Culvert Replacement

As described in Task 8 of the original contract scope of work, the new culvert was assumed to be a prefabricated structure that is performance-specified and designed by the City's construction contractor. Structures design was assumed to be limited to the culvert headwalls and retaining walls along stream channel edges upstream and/or downstream of the roadway embankment. The selected culvert alternative consists of soldier pile walls with a cast-in-place concrete lid that will require greater design

and detailing effort, and a greater level of coordination with the project team's geotechnical engineer. Jacobs will perform additional structures analysis to optimize the structure geometry and cost in coordination with Herrera, and prepare structural calculations in accordance with the AASHTO LRFD design manual.

In addition, Task 12 of the original contract scope of work assumed a total of 6 drawing sheets for structures specific to the culvert, headwalls, and retaining walls assuming a prefabricated culvert structure. For the preferred culvert alternative, the number of structures drawings increases to an estimated 13-14 sheets as listed below. Jacobs will prepare these additional sheets for inclusion in the 90% and 100% design submittals, write additional special provisions for construction as applicable for the structure components, and provide input for all structure-related elements for the construction cost estimate.

Updated list of structure drawing sheets:

1. Culvert Layout
2. Structural Notes
3. Culvert Profile and Typical Sections
4. Culvert Construction Sequence
5. East Retaining Wall Plan and Elevation
6. West Retaining Wall Plan and Elevation
7. Soldier Pile Wall Sections and Details
8. Soldier Pile Wall Sections and Details
9. Soldier Pile Wall Temporary Bracing Details
10. Soldier Pile Schedule
11. Culvert Lid Plan and Typical Section
12. Culvert North and South Headwall
13. Culvert Lid and Headwall Details
14. Culvert Miscellaneous Details (if necessary)

The added work in this task includes QA/QC checking of calculations, drawing sheet contents, construction special provisions, and construction cost estimate line items related to the culvert structure, side walls extending upstream and downstream of the culvert, and headwalls. Herrera will coordinate inclusion of the additional design drawing sheets in the 90% and final design submittals to the City.

Deliverables:

- Structures calculations, stamped and sealed
- Up to 14 total drawing sheets related to the replacement culvert for the 90% and 100% design submittals
- Additional content for construction special provisions and the construction cost estimate associated with soldier pile wall installation and forming a poured-in-place concrete top slab for the culvert roof.
- AutoCAD drawing files.

Task 14. Project Management

Herrera's level of effort to manage the project team expands commensurate with the added work in the tasks described above. Additionally, the original contract scope of work for Task 14 assumed that the project management effort would occur over a 24-month period beginning in July 2017. With the added

complexity of the project, the project management effort will extend for an additional 8 months to the end of winter 2020-2021.

Assumptions:

- Biweekly project management meetings will occur via telephone or other conference calling format through the end of winter 2020-2021, and average 45 minutes per meeting.
- Critical path schedule updates will be prepared as needed for the extended timeline to complete project design and permitting in Microsoft Project software.

Deliverables:

- Notes from project management meetings to guide ongoing work and document key decisions
- Monthly invoices and progress reports

Task 16. Property Easement Support Services Allowance

This task is for support of the City in its temporary and permanent easement work with private property owners. The final number and content of the easements to be established is uncertain and thus this task work will be completed on an “as needed” basis subject to the assumptions described below.

Task 16A. Property Easement Acquisition Support

RES Group NW (RESGNW) will provide necessary right-of-way real estate services for the private property rights needed for the project. All acquisition activities will follow Federal Highway Administration policies and procedures as well as all applicable federal, state and local laws, including, but not limited to the Uniform Relocation Assistance and Real Property Acquisition Police Act of 1970 and its amendments, 49CFR Part 24, and state Revised Guidelines and by reference the WSDOT Right of Way Manual.

RES Group NW will assist with Fee and/or Easement Acquisitions for a total of up to eight (8) parcels, as follows:

- Adjacent to Hidden Lake: King County Assessor parcel numbers 3586500905, 3586500900, 3586500895, 3586500890, and 3586500875
- Downstream of NW Innis Arden Way: parcel numbers 3586501130, 7785360070, and 7785360080

For each easement/parcel, RESGNW will complete a Project Funding Estimate (PFE) and Administrative Offer Summary (AOS) packet.

Assumptions:

- The PFE reports will utilize consistent comparable sales and valuation techniques. AOS will be written for those acquisitions valued under \$25,000 in the PFE. Should any appraisals be required, RESGNW will make a recommendation with cost estimates for appraisal consultants to the City. RESGNW will not be responsible for performing appraisals.
- Draft acquisition documents will make use of any City-approved forms, with edits as may be needed.
- The City will provide title reports for affected parcels. RESGNW will provide title memos identifying all potential encumbrances to the project team.
- Pacific Geomatic Services will provide the legal descriptions and exhibits pertaining to the acquisitions as described in Task 16B.
- Offers will be made in person whenever feasible and there will be a maximum of four (4) substantive contacts by RESGNW with each owner. A substantive contact will be considered:

- An in-person meeting with a landowner.
- A detailed phone or email conversation with a landowner, where a detailed phone call would be a telephone or e-mail discussion/correspondence directly with the landowner, regarding the ROW acquisition on their property.
- An exchange of written, non-electronic, correspondence.
- Negotiations will be deemed complete on a parcel if any of the following occur:
 - The offer is rescinded.
 - The parcel is forwarded to condemnation.
 - All applicable documents are signed and recorded, and all payments have been made.

Deliverables:

- Preliminary Funding Estimate and Administrative Offer Summaries Packet.
- Status Reports, Meeting Agendas and Notes
- Parcel Files
- Offer Packages
- Diary of Negotiation and supporting documents for each of up to 8 parcels
- Executed conveyance documents
- Administrative Settlement Justifications and/or Condemnation Memorandums
- Encumbrance Clearance Documents
- Final Action Meetings and Associated Support Work
- Title Clearance Recommendation Memorandums
- Payment Vouchers
- Conveyance Documents
- Transmittal Packages

Task 16B. Property Boundary Surveys and Easement Descriptions

Pacific Geomatic Services (PGS) will retrace the property boundaries of the following King County tax parcel ID numbers:

- Adjacent to Hidden Lake: 3586500905, 3586500900, 3586500895, 3586500890, and 3586500875
- Downstream of NW Innis Arden Way: 3586501130, 7785360070, and 7785360080

PGS will perform a boundary survey of the subject properties based on title reports provided by the City. PGS will perform additional King County records research for evidence of previous surveys, perform control measurements, and locate evidence of occupation near the boundary of the properties. Any property monuments found will be clearly marked and shown on any mapping prepared by PGS.

PGS will prepare for recording, legal descriptions and exhibit maps for one (1) Construction and Maintenance easement and up to eight (8) Temporary Construction easements located over the parcels listed above.

Assumptions:

- The City will provide right of entry for field survey work on all privately owned parcels.
- PGS will have reasonable access to all areas to be surveyed on these parcels.
- Survey work may require minor brush clearing with a machete.
- No property corners will be set as a part of this survey.

Deliverables:

- Completed boundary surveys.
- Signed PDF copies of easement legal descriptions and exhibit maps.

HERRERA ENVIRONMENTAL CONSULTANTS

**Cost Estimate for Hidden Lake Dam Removal Project Design and Permitting - Amendment 1 June 2019
Herrera Project No. 18-06771-000**

Hidden Lake Dam Removal Design and Permitting			Task 1A Supplemental Geotechnical Explorations and Analysis		Task 1E Geotechnical Support Services for Trail Design		Task 10D Critical Areas Report and Mitigation Plan Update for Trail Areas		Task 10E Cultural Resources Analysis for Trail Improvements		Task 12 Final Design for Culvert Replacement		Task 13D Increased Extent of Trail Improvements Design		Task 14 Project Management		Task 16 Property Easement Support Services Allowance		TOTAL		
			New Subtask for Culvert		New Subtask for LWCF work		New Subtask for LWCF work		New Subtask for LWCF work		Additional Budget for Existing Task for Culvert		New Subtask for LWCF work		Additional Budget for Existing Task		New Subtask				
COST SUMMARY																					
Labor			\$0	\$0	\$1,686	\$616	\$2,533	\$4,865	\$8,982	\$0	\$18,682										
Travel and per diem			\$0	\$0	\$35	\$0	\$0	\$0	\$0	\$0	\$35										
Other direct costs (ODCs)			\$0	\$0	\$20	\$0	\$0	\$0	\$0	\$0	\$20										
Subconsultants			\$2,725	\$694	\$0	\$8,272	\$34,127	\$7,883	\$0	\$77,297	\$130,998										
GRAND TOTAL			\$2,725	\$694	\$1,741	\$8,888	\$36,659	\$12,748	\$8,982	\$77,297	\$149,734										
COST ITEMIZATION																					
Labor																					
(2019 rates)																					
Personnel		Rate/Hour	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	Hours	Cost	
Ewbank, Mark	Vice President	\$240.57	0	\$0	0	\$0	0	\$0	1	\$241	4	\$962	0	\$0	36	\$8,661	0	\$0	41	\$9,863	
Merten, Christina	Scientist IV	\$178.84	0	\$0	0	\$0	2	\$358	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	2	\$358	
Spear, Eliza	Scientist II	\$93.86	0	\$0	0	\$0	12	\$1,126	4	\$375	0	\$0	0	\$0	0	\$0	0	\$0	16	\$1,502	
Forester, Kate	Landscape Architect III	\$140.44	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	16	\$2,247	0	\$0	0	\$0	16	\$2,247	
Marshall, Eric	CAD Technician III	\$130.88	0	\$0	0	\$0	0	\$0	0	\$0	12	\$1,571	20	\$2,618	0	\$0	0	\$0	32	\$4,188	
Geigel, Joseph	GIS Analyst I	\$90.68	0	\$0	0	\$0	1	\$91	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	1	\$91	
Rudnick, Tracy	Accounting Administrator III	\$107.15	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	3	\$321	0	\$0	3	\$321	
Jackowich, Pam	Administrative Coordinator IV	\$111.79	0	\$0	0	\$0	1	\$112	0	\$0	0	\$0	0	\$0	0	\$0	0	\$0	1	\$112	
SUBTOTAL LABOR (Burdened Labor)			0	\$0	0	\$0	16	\$1,686	5	\$616	16	\$2,533	36	\$4,865	39	\$8,982	0	\$0	112	\$18,682	
TRAVEL AND PER DIEM COSTS																					
		Unit	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost
Auto Use		Mile	\$0.580	0	\$0.00	0	\$0.00	60	\$34.80	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	60	\$35
SUBTOTAL TRAVEL AND PER DIEM			\$0	\$0	\$35	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$35	\$35	
OTHER DIRECT COSTS (ODCs)																					
Field Equipment and Supplies																					
Camera, digital		Day	\$10	0	\$0.00	0	\$0.00	1	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	1	\$10
Hand soil auger		Day	\$10	0	\$0.00	0	\$0.00	1	\$10.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	0	\$0.00	1	\$10
SUBTOTAL ODCs			\$0	\$0	\$20	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$20	\$20	
SUBCONSULTANT COSTS																					
		Unit	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost	Units	Cost
Cultural Resource Consultants			\$0.00		\$0.00		\$0.00		\$7,953.97		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$7,954
Alta Planning + Design			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$7,580.00		\$0.00		\$0.00		\$0.00		\$7,580
Pacific Geomatic Services			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$14,395.00		\$0.00		\$14,395
HWA GeoSciences			\$2,620.00		\$667.40		\$0.00		\$0.00		\$2,620.00		\$0.00		\$0.00		\$0.00		\$0.00		\$5,907
Jacobs			\$0.00		\$0.00		\$0.00		\$0.00		\$30,194.00		\$0.00		\$0.00		\$0.00		\$0.00		\$30,194
RES Group Northwest			\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$0.00		\$59,929.00		\$0.00		\$59,929
Fee on Subconsultants @ 4%		4%	\$105		\$27		\$0		\$318		\$1,313		\$303		\$0		\$2,973		\$0		\$5,038
SUBTOTAL SUBCONSULTANTS			\$2,725	\$694	\$0	\$8,272	\$34,127	\$7,883	\$0	\$77,297	\$130,998										
Expected years of expenditure																					
2019		100%	\$ 2,724.80	100%	\$ 694.10	100%	\$ 1,741.27	100%	\$ 8,888.14	0%	\$ -	45%	\$ 5,736.53	0%	\$ -	50%	\$ 38,648.48	39%	\$ 58,433.31		
2020		0%	\$ -	0%	\$ -	0%	\$ -	0%	\$ -	75%	\$ 27,494.55	45%	\$ 5,736.53	50%	\$ 4,490.99	50%	\$ 38,648.48	51%	\$ 76,370.54		
2021		0%	\$ -	0%	\$ -	0%	\$ -	0%	\$ -	25%	\$ 9,164.85	10%	\$ 1,274.78	50%	\$ 4,490.99	0%	\$ -	10%	\$ 14,930.62		
																					149,734.47
LWCF		0%	\$ -	100%	\$ 694.10	100%	\$ 1,741.27	100%	\$ 8,888.14	0%	\$ -	100%	\$ 12,747.84	0%	\$ -	0%	\$ -	16%	\$ 24,071.34		
Culvert		100%	\$ 2,724.80	0%	\$ -	0%	\$ -	0%	\$ -	100%	\$ 36,659.40	0%	\$ -	50%	\$ 4,490.99	0%	\$ -	29%	\$ 43,875.19		
Easement		0%	\$ -	0%	\$ -	0%	\$ -	0%	\$ -	0%	\$ -	0%	\$ -	50%	\$ 4,490.99	100%	\$ 77,296.96	55%	\$ 81,787.95		
																					149,734.47