Formal Task Assignment Document

2019 - 2021 SNOHOMISH COUNTY ON-CALL TASK ASSIGNMENT

Name of Project: Environmental Baseline Assessment Services

Project Number: <u>Airport</u>

Discipline: Engineering Services

Task No.: <u>TA #5</u> Completion Date: <u>12/31/2021</u>

The COUNTY desires to authorize services pursuant to the AGREEMENT entered into with Landau Associates, Inc., and executed on December 24, 2018, as amended by Supplement No. 1 on May 22, 2019, and identified as Agreement No. OCC19/1-7.8(AP), On-Call Consultant Services for Environmental Site Assessment.

All provisions in the AGREEMENT remain in effect except as expressly modified by this TASK ASSIGNMENT, and are incorporated herein by reference.

ATTACHED TO THIS TASK ASSIGNMENT

- Scope of Work
- Cost Estimate with Total Hours to Perform Work
- Items unique to the project not included in the AGREEMENT and which are to be reimbursed at cost with no markup.

The **Total Amount Authorized** under this TASK ASSIGNMENT, inclusive of all fees and other costs is \$59,794.00. No other payment shall be allowed unless a TASK ASSIGNMENT Supplement for changed Scope of Work has been signed and authorized before work is performed.

All work under this TASK ASSIGNMENT shall be performed pursuant to the terms, conditions, specifications, and limitations contained in the AGREEMENT.

If you concur with this TASK ASSIGNMENT and agree to the items as stated above, please sign and date in the appropriate spaces below and return to the COUNTY for final action.

Consultant Signature	-	Approving Authority



April 5, 2021

Paine Field/Snohomish County Airport 3220 100th Street SW, Suite A Everett, WA 98204

Attn: Andrew Rardin, CM

Transmitted via email to: andrew.rardin@co.snohomish.wa.us

Re: Proposed Scope of Services and Recommended Budget

Environmental Baseline Assessment Services
Paine Field/Snohomish County Airport

Everett, Washington

Dear Mr. Rardin:

Landau Associates, Inc. (LAI) is pleased to provide you with this proposed scope of services and recommended budget to support Paine Field/Snohomish County Airport (Airport) in conducting environmental baseline assessments of two Airport properties being considered for potential future development. At least one of the properties is being considered as a potential location for a new fuel farm. If authorized, the proposed services will be provided under LAI's 2019–2021 On-Call Engineering Services, Environmental Site Assessment and Geotechnical contract with Snohomish County (County).

Background

The two properties are within the site boundaries of Paine Field. Prior to leasing the properties to potential tenants, the Airport wishes to investigate soil and groundwater conditions at the properties for the purpose of establishing baseline conditions. Per the terms and conditions of the lease agreement, the tenant will be required to return the property to the original condition (i.e., the baseline conditions). Therefore, documentation of baseline conditions is an important element of the future lease agreements.

Proposed Scope of Services

The scope of services identified in this proposal letter is divided into the following four primary tasks:

- Task 1: Work Plans and Planning
- Task 2: Work Plan Implementation
- Task 3: Data Management and Reporting
- Task 4: Project Management.

Each of these tasks is described in greater detail below.

Task 1: Work Plans and Planning

Work Plan Preparation

The proposed scope for this task includes preparation of two work plans, one for each potential development site. Each work plan will describe the sampling locations, methods, and analytical testing planned for Task 2. Sampling activities are anticipated to include sampling of soil and groundwater from borings advanced using direct-push and hollow-stem auger drilling methods. Sampling parameters will be based on the planned use of the site (e.g., petroleum for a tank farm). A quality assurance project plan (QAPP) and health and safety plan (HASP) will be included in each work plan. The QAPP will identify the data objectives, along with a description of how the data will be validated and reported. Each HASP will provide LAI field staff with site-specific information regarding potential hazards associated with conducting the soil and groundwater assessment, how to mitigate the hazards, and will outline emergency procedures.

The work plans will be prepared following submittal of a lessee-generated site map showing proposed site improvements so that sampling locations can be selected based on long-term accessibility following site development. A site reconnaissance and survey will be conducted to help identify sampling locations per site development plans. The survey will be conducted by LAI field staff using a hand-held Global Positioning System device, and is expected to take one 8-hour day to complete. This task includes preparation of a County review draft, lessee review draft, and final versions of each work plan. The draft documents will be provided, as appropriate, in Microsoft Word and Adobe Acrobat (PDF) formats; the final documents will be provided as PDFs only.

Preliminary Site Assessment

LAI will conduct a review of known soil and groundwater environmental data from the immediate vicinity of the potential development sites to identify additional potential contaminants of concern, if any, to be included in the investigation parameter list. This review will also look at historical operations in the immediate vicinity of the two sites to identify potential sources of contamination, if any, and to again refine the investigation parameter list if appropriate. LAI will use the Airport's GIS-based library of reference documents to conduct this assessment, and the results will be included in the work plans and draft and final reports.

Task 2: Work Plan Implementation

The following activities will be conducted by LAI to implement the work plans:

- Prior to commencing drilling activities, LAI will mark each drilling location with white paint and/or flagging, and request a public utility locate. A private, conductible utility locate will also be conducted on the first day of drilling activities to identify any conductible utilities within 20 feet of the drilling locations. LAI will coordinate directly with the private and public utility locate companies.
- Drilling and sampling is expected to take up to 4 days for both sites, and LAI anticipates that
 one field staff person will be needed for most field activities, but will plan to provide one

additional staff member on the first day to complete the private utility locating task described above.

- For the potential fuel farm site, drilling and sampling of up to eight borings using a combination auger-probe rig. One soil sample will be collected from each borehole at the depth of the water table or where field screening indicates the highest level of contamination. Up to four of the borings will be drilled to a 20-foot depth to allow collection of a perched groundwater sample (if groundwater is present). The remaining borings will be drilled to approximately 15 feet or the depth of the water table, whichever is less, and sampled for soil as described above.
- For the second potential development site, drilling and sampling of four borings using a combination auger-probe rig. One soil sample will be collected from each borehole at the depth of the water table or where field screening indicates the highest level of contamination. Up to two of the borings will be drilled to a 20-foot depth to allow collection of a perched groundwater sample (if groundwater is present). The remaining borings will be drilled to approximately 15 feet or the depth of the water table, whichever is less, and sampled for soil as described above.
- For both potential development sites, soil and groundwater samples will be analyzed for gasoline-, diesel- and oil-range total petroleum hydrocarbons (TPH-G, TPH-D, and TPH-O, respectively), and benzene, toluene, ethylbenzene, and xylenes (BTEX). Additional analyses may be conducted on selected soil and groundwater samples, depending on the results of the preliminary site assessment conducted under Task 1. This scope and budget includes an estimate of laboratory costs for TPH-G, TPH-D, TPH-O, and BTEX analyses only. Additional analyses for volatile and semivolatile organic compounds and/or metals would be done on an as-needed basis and discussed with the County prior to requesting analyses from the laboratory.
- Soil cuttings and mixed groundwater and decontamination water will be segregated and stored in 55-gallon steel drums and moved to a secure storage location at the Airport for later disposal. LAI will coordinate with the Airport to identify the drum storage location and will assist the County with waste characterization and disposal. This proposed budget assumes that one soil and one mixed water sample will be collected from each site and will be submitted to the laboratory for metals analysis to support the waste characterization efforts.

This scope and budget assume that LAI will be able to conduct the field activities described above without obtaining additional badges for field personnel. LAI will plan to provide Paine Field-badged and trained field personnel to conduct the field activities and will notify the Airport if additional badged personnel will be required to comply with Paine Field escort procedures.

Task 3: Data Management and Reporting

LAI will prepare two separate reports documenting the preliminary site assessments and the results of the baseline assessments for each potential development site. The assessment data will be summarized in tabular format and presented on figures showing the boring locations and corresponding analytical results compared to applicable Model Toxics Control Act-based screening levels. A data validation memorandum summarizing steps taken to ensure laboratory data quality will be included, along with the tabulated investigation results. This task includes preparation of a County

review draft, lessee review draft, and final versions of each report. The draft reports will be provided, as appropriate, in Microsoft Word and Adobe Acrobat (PDF) formats; the final documents will be provided as PDFs only.

Task 4: Project Management

This task includes typical project management and coordination activities such as contracting with LAI's subcontractors and subconsultants, invoicing, budget tracking, internal coordination, coordination with subconsultants and with the Airport.

Recommended Budget and Authorization

LAI's recommended budget for completion of the above-described scope of services is \$59,794 as detailed in Table 1 (attached) and summarized below.

Task	Estimated Subcontractor & Vendor Costs	Recommended Budget
Task 1: Work Plans and Planning		\$12,343
Task 2: Work Plan Implementation	\$17,155	\$32,540
Task 3: Data Management and Reporting		\$9,849
Task 4: Project Management		\$5,062
Total	\$17,155	\$59,794

The above-described services will be provided on a time-and-expenses basis in accordance with the terms and conditions of LAI's 2019–2021 On-Call Engineering Services, Environmental Site Assessment and Geotechnical contract with the County. LAI is prepared to start immediately upon your review of this proposal and receipt of written authorization to proceed. To authorize our services, please provide LAI with the contract-required authorization.

Project Team

The project team will be led by Jerry Ninteman, PE, as project manager; Jennifer Wynkoop as quality reviewer and senior technical advisor, and Stephanie Renando as task and field manager. Other LAI personnel, primarily from the Edmonds office, will provide field and office support, as needs require.

* * * * *

Thank you for the opportunity to provide you with this proposal. If you have any questions or comments regarding any part of this proposal, please do not hesitate to contact the undersigned.

LANDAU ASSOCIATES, INC.

Stephanie A. Renando

Project Scientist

Jerry R. Ninteman, PE

Principal

SAR/JRN/ccy 2021-9248

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Attachment: Table 1: Fee Determination Summary Sheet



 Paine Field Fuel Farm Assessment
 Task 1

 Project Name
 Task Number
 Week Ending

Field		Rate (\$)			Enter How Man			
	Day	Week	Month	Day	Week	Month	Item Code	Charges
Daily Field Equipment Charges	20	1		1				\$20.00
Air Velocity Meter	50		1				5247	\$0.00
Anderson Sampler	70		1				5278	\$0.00
Flow Restrictor	15		1				5224	\$0.00
Magnehelic Gage Set	30		 				5250	\$0.00
Air Meter - GasCheck G2 - Helium Gas	80		 				5316	\$0.00
Sub-Slab Sampling Vapor Pin Kit and Shroud	50		1				5005	\$0.00
Air Compressor	40		1				5202	\$0.00
Bailer -Stainless Steel/PVC	10		1				5206	\$0.00
Flow Cell - Low Flow Groundwater	5	15	45				5239	\$0.00
Groundwater - Dataloggers - (Solinst)	30	13	73				5226	\$0.00
Meter - DO (dissolved oxygen)	30		 				5242	\$0.00
Meter - ORP (Cole Parmer) & Turbid. (HACH)	30		 				5259	\$0.00
Meter - Cole Parmer (pH/cond/temp)	30		 				5245	\$0.00
Meter - YSI	75	225	675				5256	\$0.00
Oil-Water Interface Indicator	50	223	0/3	1			5252	\$50.00
		1	1	1				
Poly-Tank or Drum (30 gal.)	10	75	225				5304	\$0.00
Meter - Turbidity (MicroTip or HACH)	30	75 120	225				5215	\$0.00
Pump - Portable Bladder (QED)	40	120	360				5260	\$0.00
Pump Controller - Bladder (QED) ONLY	75		 				5261	\$0.00
Pump - Honda 1.5"	35		├				5265	\$0.00
Pump - Honda 3"	70						5004	\$0.00
Pump - Peristaltic	35	105	315				5264	\$0.00
Pump - Purge 12 Volt	15	45	135				5271	\$0.00
Surge Blocks	3	10	30				5236	\$0.00
Water Level Indicator	30	90	270				5225	\$0.00
Injection Kit	225						5200	\$0.00
Bladder Tank	225						5201	\$0.00
Meter -HAZ-DUST 1 Particulate Monitor	75						5244	\$0.00
Meter Multi-Gas	85	255	765				5240	\$0.00
Meter-PIDs	65						5248	\$0.00
Meter-Noise Level	30						5203	\$0.00
Pump - Draeger or MSA Hand Pump	10						5263	\$0.00
Respirator	5						5210	\$0.00
Traffic Cones (per set of 10)	5	15	45				5216	\$0.00
No Parking Signs (each)	5						5309	\$0.00
Weather Station	50						5144	\$0.00
Beach Seine	75						5305	\$0.00
Benthic Sieving Equipment	45						5314	\$0.00
Ekman Grab	45						5282	\$0.00
Fathometer	20		1				5258	\$0.00
Sediment - Piston Corer	80						5306	\$0.00
Surber Benthic Sampler	50					i	5279	\$0.00
Surface Water Sampler Pole	10					ì	5300	\$0.00
Wetland Field Kit	30		 			1	5307	\$0.00
Density Equipment, Sand Cone	20						5209	\$0.00
Density Equipment, Sand Cone Density Equipment, Nuclear Densometer	50	 				}	5209	\$0.00
		 	 			1	1 1	•
Ensys Field Test Kit -PCB/TPH	100	 	 			-	5238	\$0.00
Peat Probe	5					-	5235	\$0.00
Scale or Soil - Field Gram and Pound	10		 		1	1	5231	\$0.00
Soil Hand-Auger Equipment	25		 				5288	\$0.00
Soil Split-Barrel Sampler Kit (Dames & Moore)	25	-					5285	\$0.00
Vane Shear Equipment	40						5296	\$0.00
Water Infiltration Testing Equipment	20						5308	\$0.00
Verizon - Broadband Computer Internet Card	8		<u> </u>				5143	\$0.00
Camera, Digital	10	30	90				5302	\$0.00
Canopy - 10' x 10' Pop-Up	25	75	225				5212	\$0.00
Computer, Portable	35						5507	\$0.00
Autolevel with Tripod and Rod	35						5204	\$0.00

Generator - Honda EZ3500 or EU2000i	60					5214	\$0.00
GPS - Trimble ProXRS/GeoXT/GeoXH	110	330	990	2		5237	\$220.00
Hand Level	5	330	990			5205	\$0.00
	30					5142	\$0.00
Shop Vacuum Weed Whacker/Brush Cutter	30					5310	\$0.00
	35	105	215				
Magnetic Metal Detector	33	105	315			5318	\$0.00
Equipment Subtotal							\$200.00
Equipment Subtotal							\$290.00
DISPOSABLES	Ra	ate	Enter How Many	Item Code	Charges	Notes	
Absorbent Pads (18" by 18")	0.75	each		5297	\$0.00		
Gloves, Nitrile	0.20	each	6.00	5299	\$1.20		
Gloves, Atlas & Scorpio	6.50	pair		5299	\$0.00		
Gloves, Solvex - Elbow	10.00	pair		5299	\$0.00		
Gloves, SolVex - Standard	3.50	pair		5299	\$0.00		
Protective Suit, Saranex	19.00	each		5299	\$0.00		
Protective Suit, Tyvek	9.00	each		5299	\$0.00		
Protective Boot Cover, Tyvek	1.00	pair		5299	\$0.00		
Protective Boot Cover, PVC	6.00	pair		5299	\$0.00		
Respirator Cartridges	30.00	each		5297	\$0.00		
Bailer - Rope	0.10	foot		5297	\$0.00		
Bladder QED Disposable	10.00	each		5297	\$0.00		
Brass Locks	12.00	each		5297	\$0.00		
Buckets	5.00	each		5297	\$0.00		
Disposable Bailer - Regular	10.00	each		5297	\$0.00		
Easy Draw Syringe	2.25	each		5297	\$0.00		
Encore Sampler	9.50	each		5297	\$0.00		
Free Product Sampler	3.00	each		5297	\$0.00		
Locking Well Seal (2-inch)	13.00	each		5297	\$0.00		
Groundwater Filter (45 micron)	17.00	each		5297	\$0.00		
Peristaltic - Fittings	2.30	each		5297	\$0.00		
Peristaltic - Master Flex Tubing	5.00	foot		5297	\$0.00		
Poly Tubing 5/8 inch	0.45	foot		5297	\$0.00		
Poly Tubing 1/2 inch	0.35	foot		5297	\$0.00		
Poly Tubing 3/8 inch	0.30	foot		5297	\$0.00		
Poly Tubing 1/4 inch	0.25	foot		5297	\$0.00		
Teflon Tubing 1/4"	2.00	foot		5297	\$0.00		
Qwater Well Developer	32.00	each		5297	\$0.00		
Shelby Tube Soil Seals with Caps	15.00	each		5297	\$0.00		
Spray Marking Paint	6.00	each		5297	\$0.00		
Soil Sample Chip Trays	4.00	each		5297	\$0.00		
Survey Flagging	3.00	each		5297	\$0.00		
Survey Stakes	0.70	each		5297	\$0.00		
Tedlar Bags 1 Liter	16.00	each		5297	\$0.00		
Helium Gas (vapor pin and shroud testing)	15.00	test		5297	\$0.00		
Shroud Fittings, implant, tubing, etc.	30.00	test		5297	\$0.00		
Vapor Pin Sleeve and Cap	2.00	each		5297	\$0.00		
Wattera Foot Valve	25.00	each		5297	\$0.00		
Wetland Stake	0.20	each .		5297	\$0.00		
Yeast Extract	8.00	pound		5297	\$0.00		
<u>-, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,</u>					<u> </u>		
Disposables Subtotal					\$ 1		
Vehicle Use	Ra	ate	Enter How Many	Item Code	Charges	Notes	
Vehicle Use	50.00	day	1		\$ 50		
Mileage	0.560	mile	25		\$ 14		
Vehicle Subtotal					\$ 64		
Total:					\$355.20		

*Note:

^{*} Daily units to be charged in 1/2 day increments. Daily rates will be charged unless specified weekly or monthly. The highlighted equipment and rates are not included on the County-approved equipment list.



 Paine Field Fuel Farm Assessment
 Task 2

 Project Name
 Task Number
 Week Ending

Field		Rate (\$)			Enter How Man			
	Day				Week	Month	Item Code	Charges
Daily Field Equipment Charges	20			Day 5				\$100.00
Air Velocity Meter	50						5247	\$0.00
Anderson Sampler	70						5278	\$0.00
Flow Restrictor	15						5224	\$0.00
Magnehelic Gage Set	30						5250	\$0.00
Air Meter - GasCheck G2 - Helium Gas	80		1				5316	\$0.00
Sub-Slab Sampling Vapor Pin Kit and Shroud	50		1				5005	\$0.00
Air Compressor	40		1				5202	\$0.00
Bailer -Stainless Steel/PVC	10		1				5206	\$0.00
Flow Cell - Low Flow Groundwater	5	15	45	4			5239	\$20.00
Groundwater - Dataloggers - (Solinst)	30						5226	\$0.00
Meter - DO (dissolved oxygen)	30						5242	\$0.00
Meter - ORP (Cole Parmer) & Turbid. (HACH)	30						5259	\$0.00
Meter - Cole Parmer (pH/cond/temp)	30		1				5245	\$0.00
Meter - YSI	75	225	675	4			5256	\$300.00
Oil-Water Interface Indicator	50					1	5252	\$0.00
Poly-Tank or Drum (30 gal.)	10	1					5304	\$0.00
Meter - Turbidity (MicroTip or HACH)	30	75	225				5215	\$0.00
Pump - Portable Bladder (QED)	40	120	360				5260	\$0.00
Pump Controller - Bladder (QED) ONLY	75						5261	\$0.00
Pump - Honda 1.5"	35						5265	\$0.00
Pump - Honda 3"	70						5004	\$0.00
Pump - Peristaltic	35	105	315	4			5264	\$140.00
Pump - Purge 12 Volt	15	45	135	-			5271	\$0.00
Surge Blocks	3	10	30				5236	\$0.00
Water Level Indicator	30	90	270	4			5225	\$120.00
Injection Kit	225	30	270				5200	\$0.00
Bladder Tank	225		 				5201	\$0.00
Meter -HAZ-DUST 1 Particulate Monitor	75		 				5244	\$0.00
Meter Multi-Gas	85	255	765				5240	\$0.00
Meter-PIDs	65	233	703	4			5248	\$260.00
Meter-Noise Level	30		 	-			5203	\$0.00
Pump - Draeger or MSA Hand Pump	10		 				5263	\$0.00
Respirator	5		 				5210	\$0.00
Traffic Cones (per set of 10)	5	15	45	4			5216	\$20.00
No Parking Signs (each)	5	13	43	4			5309	\$0.00
Weather Station	50		 				5144	\$0.00
Beach Seine	75						5305	\$0.00
	45		1				5314	\$0.00
Benthic Sieving Equipment	45		1				5282	\$0.00
Ekman Grab Fathometer	20		 				5282	\$0.00
	80		1				5306	
Sediment - Piston Corer			1					\$0.00
Surber Benthic Sampler	50		 				5279	\$0.00
Surface Water Sampler Pole	10		.				5300	\$0.00
Wetland Field Kit	30						5307	\$0.00
Density Equipment, Sand Cone	20				-		5209	\$0.00
Density Equipment, Nuclear Densometer	50	ļ	├				5208	\$0.00
Ensys Field Test Kit -PCB/TPH	100	ļ	├				5238	\$0.00
Peat Probe	5						5235	\$0.00
Scale or Soil - Field Gram and Pound	10						5231	\$0.00
Soil Hand-Auger Equipment	25						5288	\$0.00
Soil Split-Barrel Sampler Kit (Dames & Moore)	25						5285	\$0.00
Vane Shear Equipment	40		ļļ				5296	\$0.00
Water Infiltration Testing Equipment	20						5308	\$0.00
Verizon - Broadband Computer Internet Card	8						5143	\$0.00
Camera, Digital	10	30	90				5302	\$0.00
Canopy - 10' x 10' Pop-Up	25	75	225				5212	\$0.00
Computer, Portable	35	1			<u> </u>	1	5507	\$0.00

Autolevel with Tripod and Rod	35			1	1	5204	\$35.00
Generator - Honda EZ3500 or EU2000i	60					5214	\$0.00
GPS - Trimble ProXRS/GeoXT/GeoXH	110	330	990	1		5237	\$110.00
Hand Level	5			1		5205	\$5.00
Shop Vacuum	30					5142	\$0.00
Weed Whacker/Brush Cutter	30					5310	\$0.00
Magnetic Metal Detector	35	105	315			5318	\$0.00
-							
Equipment Subtotal							\$1,110.00
DISPOSABLES	R	ate	Enter How Many	Item Code	Charges	Notes	
Absorbent Pads (18" by 18")	0.75	each		5297	\$0.00		
Gloves, Nitrile	0.20	each	50.00	5299	\$10.00		
Gloves, Atlas & Scorpio	6.50	pair		5299	\$0.00		
Gloves, Solvex - Elbow	10.00	pair		5299	\$0.00		
Gloves, SolVex - Standard	3.50	pair		5299	\$0.00		
Protective Suit, Saranex	19.00	each		5299	\$0.00		
Protective Suit, Tyvek	9.00	each		5299	\$0.00		
Protective Boot Cover, Tyvek	1.00	pair		5299	\$0.00		
Protective Boot Cover, PVC	6.00	pair		5299	\$0.00		
Respirator Cartridges	30.00	each		5297	\$0.00		
Bailer - Rope	0.10	foot		5297	\$0.00		
Bladder QED Disposable	10.00	each		5297	\$0.00		
Brass Locks	12.00	each		5297	\$0.00		
Buckets	5.00	each	1.00	5297	\$5.00		
Disposable Bailer - Regular	10.00	each	1.00	5297	\$10.00		
Easy Draw Syringe	2.25	each		5297	\$0.00		
Encore Sampler	9.50	each		5297	\$0.00		
Free Product Sampler	3.00	each		5297	\$0.00		
Locking Well Seal (2-inch)	13.00	each		5297	\$0.00		
Groundwater Filter (45 micron)	17.00	each		5297	\$0.00		
Peristaltic - Fittings	2.30	each	2.00	5297	\$4.60		
Peristaltic - Master Flex Tubing	5.00	foot	5.00	5297	\$25.00		
Poly Tubing 5/8 inch	0.45	foot		5297	\$0.00		
Poly Tubing 1/2 inch	0.35	foot		5297	\$0.00		
Poly Tubing 3/8 inch	0.30	foot		5297	\$0.00		
Poly Tubing 1/4 inch	0.25	foot	100.00	5297	\$25.00		
Teflon Tubing 1/4"	2.00	foot		5297	\$0.00		
Qwater Well Developer	32.00	each		5297	\$0.00		
Shelby Tube Soil Seals with Caps	15.00	each		5297	\$0.00		
Spray Marking Paint	6.00	each	1.00	5297	\$6.00		
Soil Sample Chip Trays	4.00	each	1.00	5297	\$4.00		
Survey Flagging	3.00	each	1.00	5297	\$3.00		
Survey Stakes	0.70	each	16.00	5297	\$11.20		
Tedlar Bags 1 Liter	16.00	each		5297	\$0.00		
Helium Gas (vapor pin and shroud testing)	15.00	test		5297	\$0.00		·
Shroud Fittings, implant, tubing, etc.	30.00	test		5297	\$0.00		
Vapor Pin Sleeve and Cap	2.00	each		5297	\$0.00		
Wattera Foot Valve	25.00	each		5297	\$0.00		
Wetland Stake	0.20	each		5297	\$0.00		
Yeast Extract	8.00	pound		5297	\$0.00		
Disposables Subtotal					\$ 104		
Vehicle Use	R	ate	Enter How Many	Item Code	Charges	Notes	
Vehicle Use	50.00	day	6		\$ 300		
Mileage	0.560	mile	150		\$ 84		
Vehicle Subtotal					\$ 384		
Total:					\$1,597.80		

*Note:

 $^{^{*}}$ Daily units to be charged in 1/2 day increments. Daily rates will be charged unless specified weekly or monthly.

Table 1

Fee Determination Summary Sheet Environmental Baseline Assessment Services Paine Field – Everett, Washington

Snohomish County On Call Agreement No. OCC19/1-7.8(AP)

Total Task 2

Paine Field Fuel Farm Baseline Assessment Services

Task 1: Work Plans and Planning						
Classification (a)	Hours	Х	Rate (b) =	=	Cost	
Principal	10	\$	237.81 ✓	\$	2,378.10 ✓	
Senior Associate	1.5	\$	203.16 ✓	\$	304.74 ✓	
Senior Project	16	\$	139.34 🗸	\$	2,229.44 ✓	
Project	42	\$	127.47 ✓	\$	5,353.74 ✓	
GIS Analyst	6	\$	125.47 ✓	\$	752.82 ✓	
CAD/GIS Technician	3	\$	104.76 ✓	\$	314.28 ✓	
Project Coordinator	5	\$	113.62 ✓	\$	568.10 ✓	
Support Staff	1	\$	86.57 ✓	\$	86.57 ✓	
TOTAL LABOR	84.5			\$	11,987.79 🗸	
SUBCONTRACTORS (c):	<u>Unit</u>		<u>Rate</u> =			
TOTAL SUBCONTRACTORS					\$0.00	
REIMBURSABLES (c):	<u>Unit</u>	Х	Rate =			
Non-labor expenses (see attached detail)	1		\$355.20	\$	355.20 ✓	
TOTAL REIMBURSABLES				\$	355.20	
Total Task 1					\$	12,343
Task 2: Work Plan Implementation						
Classification (a)	Hours	Х	Rate (b) =	=	Cost	
Principal	3	\$	237.81 ✓	\$	713.43 ✓	
Project	82	\$	127.47 ✓	\$	10,452.54 ✓	
Senior Staff	20	\$	111.65 ✓	\$	2,233.00 ✓	
CAD/GIS Technician	0.5	\$	104.76 ✓	\$	52.38 ✓	
Project Coordinator	2	\$	113.62 ✓	\$	227.24 ✓	
Support Staff	1.25	\$	86.57 ✓	\$	108.21 ✓	
TOTAL LABOR	108.75			\$	13,786.80 ✓	
SUBCONTRACTORS (c):	<u>Unit</u>	x	<u>Rate</u> =			
Utility Locating	1		\$570	\$	570.00	
Drilling Services	1		\$12,285	\$	12,285.00	
Laboratory Analytical	1		\$4,300	\$	4,300.00	
TOTAL SUBCONTRACTORS				\$	17,155.00 ✓	
	Unit		Rate =	\$	17,155.00 ✓	
TOTAL SUBCONTRACTORS REIMBURSABLES (c): Non-labor expenses (see attached detail)	<u>Unit</u> 1		<u>Rate</u> = \$1,598	\$	17,155.00 ✓ \$1,598 ✓	

32,540 ✓

\$

Table 1

Fee Determination Summary Sheet Environmental Baseline Assessment Services Paine Field – Everett, Washington

Task 3: Data Management and Reporting

Classification (a)	Hours	Х	Rate (b) =	Cost
Principal	7		237.81 ✓	\$ 1,664.67 🗸
Senior Project	6		139.34 ✓	\$ 836.04 ✓
Project	40		127.47 ✓	\$ 5,098.80 ✓
GIS Analyst	10		125.47 ✓	\$ 1,254.70 ✓
Data Specialist	3		113.48 ✓	\$ 340.44 ✓
Project Coordinator	5		113.62 ✓	\$ 568.10 ✓
Support Staff	1		86.57 ✓	\$ 86.57
TOTAL LABOR	72			\$ 9,849.32 🗸
SUBCONTRACTORS (c):	<u>Unit</u>	х	<u>Rate</u> =	
TOTAL SUBCONTRACTORS				\$ -
REIMBURSABLES (c):	<u>Unit</u>	x	<u>Rate</u> =	
TOTAL REIMBURSABLES				\$ -

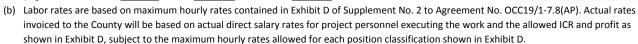
Total Task 3 \$ 9,849 ✓

rask 4. r roject ivianagement				
Classification (a)	Hours x	Rate (b) =	Cost	
Principal	13	237.81 ✓ \$	3,091.53 🗸	
Project	13	127.47 ✓ \$	1,657.11 ✓	
Project Coordinator	2	113.62 ✓ \$	227.24 ✓	
Support Staff	1	86.57 ✓ \$	86.57 ✓	
TOTAL LABOR	29	\$	5,062.45 ✓	
SUBCONTRACTORS (c):	<u>Unit</u>	Rate =		
TOTAL SUBCONTRACTORS		\$	-	
REIMBURSABLES (c):	<u>Unit</u> x	<u>Rate</u> =		
TOTAL REIMBURSABLES		\$	-	
Total Task 4			\$	5,062 ✓

TOTAL \$ 59,794 ✓

Notes:

(a) Classifications shown are general, the actual invoice will show our employee's specific discipline (e.g., Senior Associate Engineer, Senior Geologist, Senior Staff Scientist).



(c) Non-labor/reimbursable rates are shown on the attached detail sheets.

Mileage rate based on current IRS rate and subject to change as new rates are published by the IRS.

There are no markup charges for subcontractors per the agreement between LAI and the County

Contract Compliant

Date: 04/28/2021