

**WHATCOM COUNTY
CONTRACT INFORMATION SHEET**

Whatcom County Contract Number:
201812019 – 3

Originating Department:	85 Health
Division/Program: (i.e. Dept. Division and Program)	8540 Environmental Health / 854080 Solid Waste
Contract or Grant Administrator:	Jennifer Hayden
Contractor's / Agency Name:	Bennett Engineering

Is this a New Contract?	If not, is this an Amendment or Renewal to an Existing Contract?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	If Amendment or Renewal, (per WCC 3.08.100 (a)) Original Contract #:	201812019	

Does contract require Council Approval?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	If No, include WCC:
Already approved? Council Approved Date:	(Exclusions see: Whatcom County Codes 3.06.010, 3.08.090 and 3.08.100)		

Is this a grant agreement?	If yes, grantor agency contract number(s):	CFDA#:
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		

Is this contract grant funded?	If yes, Whatcom County grant contract number(s):
Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

Is this contract the result of a RFP or Bid process?	If yes, RFP and Bid number(s):	18-50	Contract Cost Center:	140201
Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>				

Is this agreement excluded from E-Verify?	No <input type="checkbox"/> Yes <input checked="" type="checkbox"/>
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If YES, indicate exclusion(s) below:

<input type="checkbox"/> Professional services agreement for certified/licensed professional.	<input type="checkbox"/> Contract for Commercial off the shelf items (COTS).
<input checked="" type="checkbox"/> Contract work is for less than \$100,000.	<input type="checkbox"/> Work related subcontract less than \$25,000.
<input type="checkbox"/> Contract work is for less than 120 days.	<input type="checkbox"/> Public Works - Local Agency/Federally Funded FHWA.
<input type="checkbox"/> Interlocal Agreement (between Governments).	

Contract Amount:(sum of original contract amount and any prior amendments):	Council approval required for; all property leases, contracts or bid awards exceeding \$40,000 , and professional service contract amendments that have an increase greater than \$10,000 or 10% of contract amount, whichever is greater, except when: <ol style="list-style-type: none"> 1. Exercising an option contained in a contract previously approved by the council. 2. Contract is for design, construction, r-o-w acquisition, prof. services, or other capital costs approved by council in a capital budget appropriation ordinance. 3. Bid or award is for supplies. 4. Equipment is included in Exhibit "B" of the Budget Ordinance 5. Contract is for manufacturer's technical support and hardware maintenance of electronic systems and/or technical support and software maintenance from the developer of proprietary software currently used by Whatcom County.
\$ 105,834	
This Amendment Amount:	
\$ 62,683	
Total Amended Amount:	
\$ 168,517	

Summary of Scope: This contract provides funding for landfill monitoring services at closed Cedarville and Y-Road landfills.

Term of Contract:	1 Year	Expiration Date:	12/31/2022
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Contract Routing:	1. Prepared by:	JT	Date:	08/23/2021
	2. Health Budget Approval	KR/JG	Date:	09/16/2021
	3. Attorney signoff:	RB	Date:	09/17/2021
	4. AS Finance reviewed:	M Caldwell	Date:	9/17/21
	5. IT reviewed (if IT related):		Date:	
	6. Contractor signed:		Date:	
	7. Executive Contract Review:		Date:	
	8. Council approved (if necessary):	AB2021-558	Date:	
	9. Executive signed:		Date:	
	10. Original to Council:		Date:	

WHATCOM COUNTY CONTRACT AMENDMENT

PARTIES:

Whatcom County
Whatcom County Health Department
509 Girard Street
Bellingham, WA 98225

AND CONTRACTOR:
Bennett Engineering
2324 James Street
Bellingham, WA 98225

CONTRACT PERIODS:

Original: 01/01/2019 – 12/31/2019
Amendment #1: 01/01/2020 – 12/31/2020
Amendment #2: 01/01/2021 – 12/31/2021
Amendment #3: 01/01/2022 – 12/31/2022

THE CONTRACT IDENTIFIED HEREIN, INCLUDING ANY PREVIOUS AMENDMENTS THERETO, IS HEREBY AMENDED AS SET FORTH IN THE DESCRIPTION OF THE AMENDMENT BELOW BY MUTUAL CONSENT OF ALL PARTIES HERETO

DESCRIPTION OF AMENDMENT:

1. Extend the duration and other terms of this contract for 1 year, as per the original contract “General Terms, Section 10.2, Extension”.
2. Amend Exhibit A – Scope of Work to reflect 2022 priorities and deliverables, which includes the following:
 - a. An update to Task 1, to include semi-annual ground water sampling and landfill gas monitoring per the Sampling and Analysis Plan which requires these activities once every 5 years. This sampling and monitoring includes preparation of the Semi-Annual Report and 2022 Annual Report.
 - b. The addition of Task 5, necessary as the current National Pollutant Discharge Elimination System (NPDES) (WA0501490) Permit expires on 5/31/2023.
3. Replace Exhibit B – Compensation to reflect increased 2022 staff, equipment, and laboratory rates, and reimbursement of the additional activities indicated in #2, above.
4. Funding for this contract period (01/01/2022 – 12/31/2022) is not to exceed \$62,683.
5. Funding for the total contract period (01/01/2019 – 12/31/2022) is not to exceed \$168,517.
6. All other terms and conditions remain unchanged.
7. The effective start date of the amendment is 01/01/2022.

ALL OTHER TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT AND ANY PREVIOUS AMENDMENTS THERETO REMAIN IN FULL FORCE AND EFFECT. ALL PARTIES IDENTIFIED AS AFFECTED BY THIS AMENDMENT HEREBY ACKNOWLEDGE AND ACCEPT THE TERMS AND CONDITIONS OF THIS AMENDMENT. Each signatory below to this Contract warrants that he/she is the authorized agent of the respective party; and that he/she has the authority to enter into the contract and bind the party thereto.

APPROVAL AS TO PROGRAM: _____
Sue Sullivan, Environmental Health Manager Date

DEPARTMENT HEAD APPROVAL: _____
Erika Lautenbach, Health Department Director Date

APPROVAL AS TO FORM: _____
Royce Buckingham, Prosecuting Attorney Date

FOR THE CONTRACTOR:

Tom Bennett, P.E. – Owner		
Contractor Signature	Print Name and Title	Date

FOR WHATCOM COUNTY:

Satpal Singh Sidhu, County Executive Date

CONTRACTOR INFORMATION:

Bennett Engineering
2324 James Street
Bellingham, WA 98225
tomb@bennettengr.com

EXHIBIT "A" – Amendment #3
(SCOPE OF WORK)

I. Background

Cedarville Landfill

Cedarville has been a closed landfill since February 1990. Final closure improvements were completed in October 1993. A leachate management system was constructed in 2012, consisting of a retention pond, aeration and settling vaults, and bio-swale filtration.

All surface water and leachate sampling at the Cedarville landfill shall be in compliance with the Sampling and Analysis Plan (Cedarville SAP) dated January 2013. Included, are sampling parameters and procedures, and reporting requirements. Quarterly surface water monitoring must be conducted at the Downstream Ditch sampling location in accordance with the Cedarville SAP, the current Industrial Stormwater General Permit (ISGP #WAR001280), and the National Pollutant Discharge Elimination System (NPDES) (WA0501490) for the landfill. Discharge monitoring reports and visual inspection reports are to be prepared for each quarterly event.

Y Road Landfills

The Y Road landfills are comprised of two former landfill areas located on the west side (Y-Road I Landfill) and on the east side (Y-Road II Landfill) of Y Road in Whatcom County. All monitoring must be in compliance with the Revised Sampling and Analysis Plan (Y-Road SAP), dated October 2003 and revised in 2013. There are a total of four groundwater wells to be sampled, one surface water sampling location, and seven gas probes installed at the two sites.

The work of this contract is divided into 6 tasks as follows:

Task 1: Semi-Annual Monitoring & Reporting – Cedarville Landfill

Task 1.1 Project Management

Project management includes project scoping and setup, invoice review, and meetings and correspondence with Whatcom County staff and outside vendors.

Task 1.2 Semi-Annual Ground Water Sampling/Landfill Inspection

Semi-annual ground water sampling will be performed in accordance with the 2013 SAP. The wells will be redeveloped utilizing a down-hole purge pump prior to the April sampling event. The static water levels will be measured in all 17 monitoring wells at the site, and eleven wells will be sampled using low-flow techniques with a peristaltic pump (shallow wells MW-1, 10 and 11) or portable submersible pump (deep wells MW-2, 3, 4, 5, 6, 7, 13D, and 14D). Ground water sampling will consist of the following work items:

1. The depth to water will be measured to the nearest 0.01 foot in all monitoring wells using an electric water level indicator, and recorded in the field data sheets.
2. The 11 sampled wells will be purged at approximately 0.5 liters per minute. Purge water will be disposed on the ground adjacent to the respective wells. The water level probe will be used to monitor changes in water level during purging. The purge rate will be adjusted to minimize ground water drawdown in the well.
3. Field parameters, including electrical conductivity, pH, oxidation-reduction potential (ORP), and temperature, will be measured with field instruments during purging. Sampling will begin when these parameters have stabilized.
4. Ground water samples will be collected from the discharge stream of the pump and will be placed directly into the appropriate sample containers provided by Edge Analytical (Edge). Field parameter readings, date, time, weather conditions, and any special field observations will be recorded on field data sheets for each monitoring well.
5. Sampling equipment will be decontaminated between each well using a triple rinse technique, which includes scrubbing the equipment with a laboratory-grade detergent, and a double rinse with distilled water. Wash and rinse will be disposed on the ground at the site.
6. Sample bottles will be labeled with the date, sample location, sample depth, and sampler's name and placed into a cooler with ice or ice-substitute.
7. Duplicate, field-blank, and trip blank samples will be prepared and analyzed in accordance with the Cedarville SAP.

Visual inspection of the landfill facilities will be performed during the semi-annual events, including the following items (at a minimum):

- Landfill cover regarding vegetation and indications of erosion, seepage, or subsidence;
- Stormwater facilities regarding ponding, obstruction of ditches, and indications of erosion;
- Leachate management system with respect to general physical condition and operation.

Task 1.3 Semi-Annual Gas Monitoring

Methane gas monitoring will be conducted at gas probes GP-1, 5, 6, 7, 8 and 9, and several sampling ports in the decommissioned gas flare system during the semi-annual events.

Task 1.4 Semi-Annual Report

The Semi-Annual Report associated with the April event will include a discussion of site conditions observed during the landfill inspection, laboratory quality assurance results, water quality data, and ground water flow direction and velocity. Summary tables will be prepared for the water quality results and parameters exceeding applicable ground water (WAC 173-200) or surface water (WAC 173-201A) standards will be highlighted. A ground water contour map, field data sheets, and laboratory results will be attached to the report, along with a chain-of-custody documentation regarding sample handling. The Semi-Annual Report will be submitted electronically to the WCHD and Ecology in PDF format within 30 days of receipt of the analytical data.

Task 1.5 2022 Annual Report

The 2022 Annual Report will be prepared following the October event and will include time-series plots for conductivity, chloride, and total iron and manganese, qualitative analysis of water quality trends, summary tables of historic analytical data, and the other data as previously described for the Semi-Annual Report. The 2022 Annual Report will be submitted to the WCHD and Ecology in PDF format prior to December 31, 2022.

Task 1.6 Laboratory Analysis

Bennett will hand-deliver water samples to Edge on the day of the monitoring events. The analytical fees for Task 1 are presented in Exhibit B.

Task 2: Surface Water Monitoring – Cedarville Landfill

The scope of work for Task 2 includes quarterly site inspection, surface water sampling at the D.D. location, and reporting in accordance with the ISGP. Specifically, this task will include the work items listed below.

Task 2.1 Quarterly Sampling and Site Inspection

Stormwater monitoring and inspection will be conducted in accordance with the ISGP, which calls for quarterly observations for oil sheen, and surface water sampling and analysis of the following parameters: pH (field), turbidity, and total copper and zinc. Visual inspections are performed during the quarterly events, and include observations of uncontrolled discharges to ground, floating materials, visible sheens, discoloration, turbidity, and odor.

Task 2.2 Laboratory Testing

Bennett will deliver water samples to Edge immediately following the sampling events. The anticipated analytical fees for Task 2 are presented in Exhibit B.

Task 2.3 Quarterly Discharge Monitoring Reports and Visual Inspection Reports

Bennett will enter quarterly DMRs into Ecology's WebDMR system prior to the 15th day of the month following the respective quarter. The DMRs are reviewed and validated by County staff to complete the submittal process. The quarterly Visual Inspection Reports will be submitted to Whatcom County in PDF format, which will summarize site observations and provide a list of recommended actions, if necessary.

Task 2.4 ISGP Annual Report

Bennett will prepare the 2021 ISGP Annual Report using Ecology's standard form. The report will be submitted to Whatcom County for

review and comment prior to May 1, 2022. The final report will be submitted to Whatcom County and Ecology prior to May 15, 2022 deadline.

Task 3: NPDES Permit Sampling - Cedarville Landfill Leachate Management System

Under this task, sampling and analysis of the treated effluent and surface water samples will be performed in accordance with the NPDES Permit.

Task 3.1: NPDES Permit Sampling

Monthly sampling of the treated effluent will be performed at the discharge manhole of the effluent pond (Outfall #001). Monthly surface water samples will also be obtained in the regional drainage ditch to determine the turbidity at locations upgradient and downgradient of Outfall #001. Bennett will measure field parameters (pH, conductivity, and temperature) during each sampling event. The scope of work for this task assumes that discharge will occur during the months of January through April, November, and December 2022 (6 sampling events total).

Task 3.2: Discharge Monitoring Reports

DMRs will be entered into Ecology's WebDMR system every month (12 total), regardless of the status of system discharge. County staff will review and validate the DMRs prior to the 15th day of the month following the sampling event.

Task 3.3: Coordination of Annual O&M Work Items

Bennett will develop a list of maintenance work items for the LMS, in accordance with the O&M Manual. Bennett will provide field support and observation during the maintenance work, and submit associated field reports and photo documentation to Whatcom County following completion of the work.

Task 3.4 Laboratory Testing

Bennett will deliver the effluent samples to Edge immediately following the sampling event. The anticipated analytical fees for Task 3 are presented in Exhibit B.

Task 4: Ground Water, Surface Water, and Landfill Gas Monitoring -Y-Road Landfills

Semi-annual landfill monitoring events will be performed at the Y-Road Landfills in January and July 2022, in accordance with the current SAP. Specifically, this task will include the work items listed below.

Task 4.1: Semi-Annual Sampling and Inspection

Ground water sampling will be conducted using low-flow methods, as described below.

1. The depth to water and depth to bottom will be measured to the nearest 0.01 foot in MW-1, 3, 4, 5, 6, 7, 8, and 9 using an electric water level indicator, and recorded in the field data sheets. The bottom elevations will be compared to previous readings to determine the depth of sediment accumulation and evaluate the need for well re-development.
2. Monitoring wells MW-1, 3, 4, and 9 will be purged with a peristaltic pump at approximately 0.5 liter per minute. Purge water will be disposed on the ground. The water level probe will be used to monitor changes in water level during purging. The purge rate will be adjusted to minimize ground water drawdown. Field parameters will be measured with field meters during purging. Sampling will begin when these parameters have stabilized. Ground water samples will be collected directly from the discharge stream of the pump in appropriate sample containers provided by Edge.
3. Field parameter readings, date, time, weather conditions and any special field observations will be recorded on field data sheets for each monitoring well.
4. Sample bottles will be labeled with the date, sample location, sample depth, and sampler's name and placed into a cooler with ice or ice-substitute.
5. Field sampling equipment will be decontaminated between each well.

Surface water sampling in Carpenter Creek will be performed using a polyethylene sample bottle immersed in the water upstream of sampling personnel to avoid possible inclusion of suspended sediment. Surface water samples will be transferred to appropriate sample

bottles supplied by Edge. Field parameter readings, date, time, weather conditions and any special field observations will be recorded on the field data sheet.

A visual inspection will also be performed during the semi-annual monitoring events, and will include observations of the following items (at a minimum):

- landfill cover regarding vegetation and indications of erosion, seepage, or subsidence;
- stormwater facilities regarding ponding, obstruction of ditches, and indications of erosion;
- ground water and gas monitoring wells with respect to physical condition; and
- flow in Carpenter Creek.

Task 4.2 Laboratory Testing

Bennett will deliver water samples to Edge on the day of the semi-annual monitoring events. Samples to be analyzed for dissolved metals will be filtered at the lab. The anticipated analytical fees for Task 4 are presented in Exhibit B.

Task 4.3: Semi-Annual Gas Probe Monitoring

Methane gas concentrations will be measured at the seven gas monitoring wells at the Y-Road II Landfill using an RKI Gas Tracer combustible gas meter. The gas meter will be calibrated by the vendor using a 25% LEL methane standard and ambient oxygen conditions. Gas pressures will be measured at each well to the nearest 0.01 inches of water column using a digital manometer. The barometric pressure during the semi-annual monitoring events will be obtained from data recorded by the National Weather Service at the Bellingham International Airport.

Task 4.4: Semi-Annual Report

The Semi-Annual Report will include a discussion of site conditions observed during the January 2022 event, analytical results, and ground water flow direction and velocity, and summary tables for ground water, surface water, and gas monitoring results. Ground water contour maps for the two landfills, field data sheets, and laboratory results will be attached to the report, along with chain-of-custody documentation. The Semi-Annual Report will be submitted in PDF to Whatcom County within 30 days of receipt of the analytical data.

Task 4.5 2019 Annual Report

The 2022 Annual Report for the Y-Road Landfills will be prepared following the July 2022 event and will include time-series plots for conductivity, chloride, and total barium, iron, and manganese, qualitative analysis of water quality trends, summary tables of historic analytical data, and other data as previously described under Task 4.4 for the Semi-Annual Report. The 2022 Annual Report will be submitted in PDF to Whatcom County prior to September 30, 2022.

Task 5: Application for NPDES Permit Renewal – Cedarville Landfill

The current NPDES Permit No. WA0501490 expires on May 13, 2023. Task 5 involves analyzing the effluent quality and flow data developed over the past 9 years of LMS operation. A Technical Memorandum will be prepared as an attachment to the renewal application to summarize and support any proposed changes to the sampling frequency and parameters for the new permit. Bennett will prepare and submit the Draft Application, including NPDES Permit Forms 1 and 2C and the associated diagrams, to the WCHD in PDF format for review and comment. The Final Application will incorporate WCHD comments. Three originals of the Final Application will be prepared and distributed to WCHD and Ecology prior to the application deadline of December 1, 2022.

EXHIBIT "B" – Amendment #3
(COMPENSATION)

I. **Budget and Source of Funding:** The source of funding for this contract, in the amount not to exceed \$62,683, is the Whatcom County Solid Waste Fund.

II. Contract Budget:

TASK 1 - SEMI-ANNUAL MONITORING & REPORTING				
CEDARVILLE LANDFILL		RECOMMENDED BUDGET		
Task 1.1 - Project Management		Time	Rate	Total
Project Scoping and Setup		4	\$125.00	\$500.00
Project Management		12	\$125.00	\$1,500.00
Invoice Review		12	\$125.00	\$1,500.00
Correspondence With County and Outside Vendors		12	\$125.00	\$1,500.00
Task 1.1 Total				\$5,000.00
Task 1.2 - Semi-Annual GW Sampling/Inspection		Events	Time/Event	Rate
Water Monitoring Event (April and October Events)		2	16	\$115.00
Redevelop Wells (Prior to April 2022 Event)			4	\$115.00
Sampling Equipment/Supplies/Courier (w/ 7.5% Markup)		2	1	\$1,700.00
Task 1.2 Total				\$7,540.00
Task 1.3 – Semi-Annual Gas Monitoring		Events	Time/Event	Rate
Semi-Annual Monitoring (April and October Events)		2	2	\$115.00
Task 1.4 – Semi-Annual Report		Time	Rate	Total
Semi-Annual Monitoring Report (April Event)		8	\$125.00	\$1,000.00
Data Validation/Database Maintenance		2	\$125.00	\$250.00
Drafting – Ground Water Contour Maps		2	\$75.00	\$150.00
Task 1.4 Total				\$1,400.00
Task 1.5 – Annual Report		Time	Rate	Total
Annual Report (October Event)		14	\$125.00	\$1,750.00
Data Validation/Database Maintenance		2	\$125.00	\$250.00
Time Series Plots		6	\$125.00	\$750.00
Drafting – Ground Water Contour Maps		2	\$75.00	\$150.00
Task 1.5 Total				\$2,900.00
Task 1.6 – Laboratory Analysis (Edge Analytical)				
(11 Monitoring Wells/Duplicate/Field Blank)		Quantity	Rate	Total
Total Suspended Solids		24	\$17.00	\$408.00
Total Dissolved Solids		24	\$17.00	\$408.00
Chloride		26	\$15.00	\$390.00
Nitrate		24	\$16.00	\$384.00
Nitrite		24	\$16.00	\$384.00
Ammonia		24	\$16.00	\$384.00
Turbidity		24	\$15.00	\$360.00
Total Organic Carbon		24	\$42.00	\$1,008.00
Chemical Oxygen Demand		24	\$40.00	\$960.00
Total Metals (Ba, Fe, Mn, Zn) + Lab Digestion		26	\$80.00	\$2,080.00
<i>Task 1.6 Subtotal</i>				<i>\$6,766.00</i>
<i>Markup (7.5%)</i>				<i>\$507.00</i>
Task 1.6 Total				\$7,273.00
			TASK 1 TOTAL:	\$24,573.00
TASK 2 – ISGP SURFACE WATER MONITORING				
CEDARVILLE LANDFILL		RECOMMENDED BUDGET		
Task 2.1 - Quarterly Sampling and Site Inspection		Events	Time	Rate
Quarterly Sampling Events		4	4	\$115.00
Quarterly Visual Inspection Report		4	1	\$115.00
Task 2.1 Total				\$2,300.00

Task 2.2 - Laboratory Analysis (Edge Analytical)		Quantity	Rate	Total	
Turbidity		8	\$15.00	\$120.00	
Total Metals (Cu and Zn)		4	\$40.00	\$160.00	
<i>Task 2.2 Subtotal</i>				\$280.00	
<i>Markup (7.5%)</i>				\$21.00	
Task 2.2 Total				\$301.00	
Task 2.3 - Quarterly Discharge Monitoring Reports/Visual Insp. Reports		Events	Time	Rate	Total
Quarterly Discharge Monitoring Reports		4	1	\$125.00	\$500.00
Quarterly Visual Inspection Report		4	1	\$125.00	\$500.00
Task 2.3 Total					\$1,000.00
Task 2.4 - ISGP Annual Report		Time	Rate	Total	
2021 ISGP Annual Report to Ecology - Due May 15, 2022		5	\$125.00	\$625.00	
			TASK 2 TOTAL:	\$4,226.00	
TASK 3 - NPDES PERMIT SAMPLING					
CEDARVILLE LANDFILL		RECOMMENDED BUDGET			
Task 3.1 - NPDES Permit Sampling		Events	Time	Rate	Total
Field Sampling Events (Jan-April and Nov-Dec)		6	4	\$115.00	\$2,760.00
Peristaltic Pump/Field Monitoring Equipment		6	1	\$100.00	\$600.00
Task 3.1 Total					\$3,360.00
Task 3.2 - Monthly Discharge Monitoring Reports		Events	Time	Rate	Total
Discharge Monitoring Reports		12	2	\$125.00	\$3,000.00
Task 3.3 - Coordination of Annual O&M Work Items		Time	Rate	Total	
Work Item Punchlist/Field Observation/Reporting		8	\$125.00	\$1,000.00	
Task 3.3 Total				\$1,000.00	
Task 3.4 - Laboratory Analysis (Edge Analytical)		Quantity	Rate	Total	
Biological Oxygen Demand		6	\$49.00	\$294.00	
Total Suspended Solids		6	\$17.00	\$102.00	
Turbidity		18	\$15.00	\$270.00	
Chloride		6	\$15.00	\$90.00	
Total Metals (As, Ba, Cu, Fe, Mn, Ni, and Zn)		1	\$105.00	\$105.00	
Ammonia		1	\$16.00	\$16.00	
Alpha Terpineol/Benzoic Acid/p-Cresol/Phenol		1	\$220.00	\$220.00	
Sulfate		1	\$16.00	\$16.00	
Nitrate + Nitrite		1	\$26.00	\$26.00	
Soluble Reactive Phosphorus		1	\$28.00	\$28.00	
Total Organic Carbon		1	\$42.00	\$42.00	
<i>Task 3.4 Subtotal</i>				\$1,209.00	
<i>Markup (7.5%)</i>				\$91.00	
Task 3.4 Total				\$1,300.00	
			TASK 3 TOTAL:	\$8,660.00	
TASK 4 - GROUND WATER, SURFACE WATER, AND GAS MONITORING – Y-ROAD LANDFILLS					
Task 4.1 - Semi-Annual Ground/Surface Water Sampling		Events	Time	Rate	Total
Sampling Events and Inspection		2	12	\$115.00	\$2,760.00
Field Sampling Equipment/Supplies (w/ 7.5% Markup)		2		\$400.00	\$800.00
Task 4.1 Total					\$3,560.00
Task 4.2 - Laboratory Analysis (Edge Analytical)		Quantity	Rate	Total	
4 Monitoring Wells/Surface Water					
Total Suspended Solids		10	\$17.00	\$170.00	
Total Dissolved Solids		10	\$17.00	\$170.00	
Turbidity		10	\$15.00	\$150.00	
Chloride		10	\$15.00	\$150.00	
Nitrate		10	\$16.00	\$160.00	
Nitrite		10	\$16.00	\$160.00	
Ammonia		10	\$16.00	\$160.00	
Total Organic Carbon		10	\$42.00	\$420.00	
Hardness		2	\$22.00	\$44.00	
Sulfate		10	\$16.00	\$160.00	

Chemical Oxygen Demand		10	\$40.00	\$400.00
Biochemical Oxygen Demand		2	\$49.00	\$98.00
Total Metals (As, Ba, Fe, Mn, Hg, Pb, Zn)		10	\$87.00	\$870.00
Dissolved Zn + Lab Filtration (Surface Water Sample)		2	\$15.00	\$30.00
<i>Task 4.2 Subtotal</i>				\$3,142.00
<i>Markup (7.5%)</i>				\$236.00
Task 4.2 Total				\$3,378.00
Task 4.3 - Semi-Annual Gas Probe Monitoring	Events	Time	Rate	Total
Gas Monitoring Events	2	2	\$115.00	\$460.00
Task 4.4 - Semi-Annual Report		Time	Rate	Total
Report Preparation		8	\$125.00	\$1,000.00
Data Validation/Database Maintenance		2	\$125.00	\$250.00
Drafting - Ground Water Contour Maps		2	\$75.00	\$150.00
Task 4.4 Total				\$1,400.00
Task 4.5 - Annual Report		Time	Rate	Total
Report Preparation		12	\$125.00	\$1,500.00
Data Validation/Database Maintenance		2	\$125.00	\$250.00
Time Series Plots		6	\$125.00	\$750.00
Drafting - Ground Water Contour Maps		2	\$75.00	\$150.00
Task 4.5 Total				\$2,650.00
			TASK 4 TOTAL:	\$11,448.00
TASK 5 – APPLICATION FOR NPDES PERMIT RENEWAL				
CEDARVILLE LANDFILL		Time	Rate	Total
Draft Application for Permit Renewal – Review Draft		32	\$125.00	\$4,000
Final Application for Permit Renewal		8	\$125.00	\$1,000
Site Exhibits		8	\$75.00	\$600.00
Task 5 Total				\$5,600
			SUBTOTAL:	\$54,507.00
			*CONTINGENCY (15%):	\$8,176.00
			TOTAL CONTRACT BUDGET:	\$62,683

* Contractor will not expend any contingency funds without prior written authorization of the County.

2022 Schedule of Fees – Bennett Engineering, LLC

The above contract budget is based on the following rates:

Personnel	Hourly Rate
Staff Engineer	\$75.00
Project Engineer	\$90.00
Senior Engineer I	\$105.00
Senior Engineer II	\$115.00
Project Manager	\$125.00
Principal Engineer	\$135.00
Hearing/Expert Testimony	\$150.00

Equipment	Rate
Disposable Bailers, each	\$10.00
Peristaltic Pump, per day	\$75.00
Sail Sampling Equipment, per day	50.00
Field Monitoring Equipment, per day	25.00
Field Filter/Purge Pump & Assembly, per day	50.00
Field Manometer, per day	\$25.00

Services	Rate
Subconsultant Services	Cost + 7.5%
Direct Project Expenses	Cost + 7.5%

III. Invoicing

1. The Contractor shall submit itemized invoices on a monthly basis in a format approved by the County. Monthly invoices must be submitted by the 10th of the month following the month of service. Please include purchase order number and/or contract number on invoice.
2. Invoices submitted for payment should be sent to HL-BusinessOffice@co.whatcom.wa.us.
3. Payment by the County will be considered timely if it is made within 30 days of the receipt and acceptance of billing information from Contractor. The County may withhold payment of an invoice if the Contractor submits it more than 30 days after the expiration of this contract.
4. Invoices must include the following statement, with an authorized signature and date:
I certify that the materials have been furnished, the services rendered, or the labor performed as described on this invoice.
5. Duplication of Billed Costs or Payments for Service: The Contractor shall not bill the County for services performed or provided under this contract, and the County shall not pay the Contractor, if the Contractor has been or will be paid by any other source, including grants, for those costs used to perform or provide the services in this contract. The Contractor is responsible for any audit exceptions or disallowed amounts paid as a result of this contract.