

Exhibit B-1

COST OF SERVICES WORKSHEET

2. SPECIFIED SERVICES							
TASK	SITE	DESCRIPTION	UNIT COST/ EVENT	# OF EVENTS ANNUALLY	FREQUENCY	SUB-TASK TOTAL (Unit Cost X # of Events)	TASK TOTAL (\$)
Task 1.0 Routine Operations							
1.1	Healdsburg	Monthly Operation	\$2,355.00	12	Monthly	\$28,260.00	\$28,260.00
Task 2.0 Routine Maintenance							
2.1	Healdsburg	BFS, Chart Recorder, Well Field Observations	\$119.00	12	Monthly	\$1,428.00	
2.2	Healdsburg	Alarm Signals	\$282.00	4	Quarterly	\$1,128.00	
2.3	Healdsburg	Leachate Pumps	\$7,698.00	2	Every 6 months	\$15,396.00	
Task 3.0 Routine Monitoring							
3.1	Healdsburg	Monitoring - Blower Flare Station	\$198.00	24	Bimonthly	\$4,752.00	
3.2	Healdsburg	LFG header, Counters, Well Field, Probes, Flare Downtime	\$725.00	12	Monthly	\$8,700.00	
3.3	Healdsburg	Component Leak Monitoring - BFS	\$1,275.00	4	Quarterly	\$5,100.00	
3.4	Healdsburg	SEM Monitoring (LMR) - Well Field	\$7,431.00	1	Annually	\$7,431.00	
Task 4.0 Operations, Maintenance, Testing, and Monitoring Reporting							
4.1	Healdsburg	O&M Monthly Report	\$1,850.00	12	Monthly	\$22,200.00	
4.2	Healdsburg	LFG Production/Flare Operating Hrs Annual Rpt	\$1,829.00	1	Annually	\$1,829.00	
4.3	Healdsburg	Source Test/Gas Characterization Report*	\$13,010.00	0	Every 3rd Year	\$13,010.00	
4.4	Healdsburg	Annual AB32 LMR SEM Report	\$2,406.00	1	Annually	\$2,406.00	
Total Annual Estimate for Proposed Tasks 1 through 4 Services:							\$98,630.00

Task 5.0 Non-Routine Services

a	Healdsburg	Call-out by the BFS automated alarm notification system or by County personnel	\$50,000.00	1	As needed	\$50,000.00	
b	Healdsburg	Repair of pneumatic leachate extraction pumps and appurtenances beyond what is considered Routing Maintenance in Task 2.3	\$105,000.00	1	As needed	\$105,000.00	
c	Healdsburg	Repair of main LFG header brakes/leaks resulting in no or low gas flow to the flare		0	As needed	\$0.00	
d	Healdsburg	Repair or replacement of broken valves, flex hoses, positive pressure air lines and appurtenances		12	As needed	\$0.00	
e	Healdsburg	Repair of above or below grade LFG pipelines and appurtenances, leachate collection piplines and appurtenances, and positive pressure air lines and appurtenances		1	As needed	\$0.00	
f	Healdsburg	Expansion of LFG extraction well system, headers, LCRS, pneumatic pipelines, and al GCCA/LCRS appurtenances (Non-routing expansion of the GCCS/LCRS is generally a result of the LMR or due to the detection of LFG constituents at perimeter wells.).	\$30,000.00	1	As needed	\$30,000.00	
g	Healdsburg	The CONTRACTOR will notify the County's IWOM by email of any new rules or regulations promulgated by local, state, or federal regulatory agencies that either could or will affect closed landfills in the state of California.		12	As needed	\$0.00	
h	Healdsburg	Implementation of flare operations per the CARB issued ACO.	\$10,000.00	1	As needed	\$10,000.00	
i	Healdsburg	Additional SEM Monitoring, beyond the required annual inspection in Task 3.4	\$12,000.00	2	Quarterly	\$24,000.00	
Total Annual Estimate for Proposed Non-Routine Task 5.0:							\$219,000.00

SCHEDULE OF RATES WORKSHEET*

Task 5.0 Non-Routine Services for the Healdsburg Closed Landfill	
Technical Field Personnel*	Rate (\$)/Hour
Field Staff/Laborer	\$105.00
HDPE Fusion Technician/Pipe Fitter	\$126.00
Pneumatic Pump Technician	\$105.00
Flare Technician	\$126.00
Heavy Equipment Operator	\$134.00
Systems Specialist	\$183.00
Survey Technician	\$210.00
Survey Crew	\$311.00
Foreman	\$164.00
Senior Technician	\$137.00
Management and Support Personnel*	
Principal Engineer	\$265.00
Senior Engineer	\$209.00
Project Engineer	\$152.00
Project Manager	\$189.00
Field Data Analyst	\$73.00
Senior Project Administrator	\$90.00
Project Coordinator	\$134.00
Design Draftsperson	\$148.00
Drafting Technician	\$123.00
Field Project Coordinator	\$90.00
Clarial	\$90.00
Administrative	\$90.00
Project Manager	\$189.00

* See additional Tetra Tech Schedule of Rates/Charges (Attachment A).

(909) 860-7777

SCHEDULE OF CHARGES

PERSONNEL	HOURLY RATE	PERSONNEL	HOURLY RATE
Administrative Assistant	\$90	Project Clerk	\$78
CAD Operator / CAD Designer I	\$97	Project Coordinator	\$134
Chief Engineering Technician	\$151	Project Data Analyst	\$73
Chief of Survey Parties	\$174	Project Designer	\$179
Construction Engineering Technician	\$164	Project Manager	\$160
Construction Manager I	\$184	Project Manager I	\$170
Construction Manager II	\$200	Project Manager II	\$189
Construction Supervisor	\$179	Project Manager III / Client Manager I	\$199
Designer	\$148	Project Manager IV / Client Manager II	\$209
Division Engineer I	\$231	Project Manager V	\$219
Division Engineer II	\$242	Project Office Services Clerk	\$90
Drafter / Senior CAD Designer I	\$123	Regulatory Compliance Manager	\$180
Engineer	\$113	Regulatory Compliance Specialist I	\$142
Engineer I	\$126	Regulatory Compliance Specialist II	\$156
Engineer II	\$140	Program Director	\$271
Engineer III	\$152	Senior CAD Operator / CAD Designer II	\$107
Engineer IV	\$166	Senior Construction Manager	\$232
Engineer V	\$178	Senior Designer / CAD Manager	\$162
Engineer VI	\$194	Senior Drafter / Senior CAD Designer II	\$134
Engineer VII	\$204	Senior Engineer I	\$209
Engineering Technician / Engineer Technician	\$54	Senior Engineer II	\$219
Engineering Technician I / Technician I	\$80	Senior Environmental Scientist	\$186
Engineering Technician II / Technician II	\$95	Senior Environmental Specialist	\$164
Engineering Technician III / Sr Technician I	\$105	Senior Planner	\$167
Engineering Technician IV / Sr Technician II	\$126	Senior Principal	\$299
Engineering Technician V / Sr Technician III	\$137	Senior Project Coordinator	\$153
Environmental Specialist / Scientist	\$100	Senior Project Designer	\$189
Environmental Specialist / Scientist I	\$111	Senior Project Manager / Client Manager III	\$228
Environmental Specialist / Scientist II	\$123	Senior Regulatory Compliance Specialist	\$172
Environmental Specialist / Scientist III	\$139	Principal Geologist	\$256
Environmental Specialist / Scientist IV	\$152	Project Geologist	\$148
Environmental Specialist / Scientist V	\$161	Project Geologist I	\$164
Landscape Architect I	\$156	Project Geologist II	\$174
Landscape Architect II	\$189	Senior Geologist I	\$182
Planner	\$100	Senior Geologist II	\$194
Planner I	\$120	Senior Geologist III	\$203
Planner II	\$135	Soils/Asphalt/Field Technician	\$105
Planning Manager	\$156	Soils/Asphalt/Field Technician - Prevailing Wage	\$124
Principal	\$285	Staff Geologist I	\$125
Principal Construction Manager	\$256	Staff Geologist II	\$135
Principal Engineer	\$265	Staff Geologist III	\$145
Principal Solid Waste Planner	\$252	Supervising Geologist	\$231
Project Advisor *	\$175-\$350	I-Man Survey Party with GPS	\$210
		2-Man Survey Party	\$311

Rates are Effective January 1, 2020 - December 31, 2023

An administrative fee of fifteen (15%) will be added to the direct cost of all consultant, vendors, materials, equipment suppliers and any other outside services to provide for the cost of administration, sub-consultant coordination and insurance.

Court Appearance (Expert Witness, Deposition) and Overtime Premium is 150% of Personnel Hourly Rate

** Rate for Project Advisor to be based on specialized staff required*



(909) 860-7777

REIMBURSABLE CHARGES

Rates are Effective January 1, 2020 - December 31, 2023

In addition to the above charges for professional services (including routine expenses), we require reimbursement for the following items:

A. IN-HOUSE EXPENSES

Reproduction/Plotting:	Xerox Copies	\$0.10/page
	Color Copies	\$0.50/page
	Wide Format Copies	\$0.30/sq. ft.
	Blueprints	\$0.50/sq. ft.
	Bond Plotting -- Black & White	\$2.00/sq. ft.
	Bond Plotting -- Color	\$4.00/sq. ft.
	Vellum Plotting	\$4.00/sq. ft.
	Mylar Plotting	\$5.00/sq. ft.
Mileage:	Personal Vehicle	\$0.60/mile
	Company Vehicle	\$0.70/mile

OR

5% OF TOTAL PERSONNEL FEES

B. OTHER EXPENSES

Company Vehicles	\$15.00/hour
Survey Vehicles	\$15.00/hour
Other Out-of-Pocket Expenses/Supplies/Travel	Cost + 15%
Equipment Usage	See Attached Schedule
Consultants/Outside Services*	Cost + 15%
Construction Services	Cost + 15%
Per Diem for Living Expenses	Federal Rates
CADD Computer Usage	\$10.00/hour
Field Computer Services	\$40.00/week
GPS Survey Equipment Services	\$200.00/week

* An administrative fee of fifteen (15%) will be added to the direct cost of all consultant, vendors, materials, equipment suppliers and any other outside services to provide for the cost of administration, sub-consultant coordination and insurance.



EQUIPMENT RENTAL RATES

Rates are Effective January 1, 2020 - December 31, 2023

TYPE OF EQUIPMENT	DAY	WEEK	MONTH
4 Gas Range Meter CH4, H2S, CO, O2 (Sentinel 44)	\$75	\$200	\$500
Alpha - I Personal Sampling Pump	\$75	\$200	\$500
Disposable Bailer	\$20/each	n/a	n/a
CO2 Calorimetric Analysis Tubes	\$40	\$125	\$250
Downhole Camera	\$75/hr	n/a	n/a
Dupont Dosimeter Mark-3 (Personal Sample Pump)	\$50	\$150	\$300
Flow Calibrator (Gilian)	\$50	\$150	\$300
Gas Extraction Monitor (GEM 500 / 2000 / 2000 Plus)	\$125	\$350	\$900
Lung Sampler (Nutech 218)	\$100	\$300	\$800
Mini-Ram Data Logger	\$40	\$125	\$250
Mini-Ram Dust Meter	\$50	\$150	\$300
Organic Vapor Analyzer (OVA128)	\$125	\$400	\$1,000
Photo Ionization Detector (OVM580B)	\$125	\$400	\$1,000
Sample Train (Gas Extraction Pump)	\$50	\$150	\$300
Soil Auger/Sampler	\$30	\$90	\$180
Sounder (Liquid Level Indicator)	\$40	\$125	\$250
Horiba Meter	\$50	\$200	\$400
MiniRae 2000	\$75	\$200	\$500
GT Surveyor	\$75	\$200	\$500
Groundwater Sampling Equipment	\$30/hour	n/a	n/a
Company Vehicle	\$120	\$480	\$1,250
Field Sampling Supplies:	100/day	n/a	n/a
LEVEL C (Per Person)	\$150	n/a	n/a
Respirator with Cartridge (full or half faced)			
Tyvek Coveralls, Outer Gloves, Glove Liners, Neoprene Boots			
Sand Cone or Nuclear Density Gauge	\$8/hour	n/a	n/a
Hand auger and soil sampling equipment	\$50	n/a	n/a
BAT Permeameter	\$180	n/a	n/a
Inclinometer read unit	\$400	n/a	n/a
Floor level manometer	\$50	n/a	n/a
Moisture vapor emission test kit (material only)	\$40/kit	n/a	n/a
Field inspection kit (camera, recorder, GPS)	\$35	n/a	n/a

Attachment A

EQUIPMENT RATE SCHEDULE

ITEM No.	Equipment	2021	2022	2023
1	Service Truck, Daily Rate	\$ 150	\$ 154	\$ 158
2	Service Truck, Weekly Rate	\$ 600	\$ 615	\$ 630
3	Service Truck, Monthly Rate	\$ 1,500	\$ 1,538	\$ 1,576
4	Backhoe - 90HP or less, Daily Rate	\$ 440	\$ 451	\$ 462
5	Backhoe - 90HP or less, Weekly Rate	\$ 1,320	\$ 1,353	\$ 1,387
6	Backhoe - 90HP or less, Monthly Rate	\$ 3,960	\$ 4,059	\$ 4,160
7	Man lift, Daily Rate	\$ 825	\$ 846	\$ 867
8	Man lift, Weekly Rate	\$ 1,320	\$ 1,353	\$ 1,387
9	Man lift, Monthly Rate	\$ 3,960	\$ 4,059	\$ 4,160
10	Excavator - 20 Ton or less, Daily Rate	\$ 770	\$ 789	\$ 809
11	Excavator - 20 Ton or less, Weekly Rate	\$ 2,310	\$ 2,368	\$ 2,427
12	Excavator - 20 Ton or less, Monthly Rate	\$ 6,820	\$ 6,991	\$ 7,165
13	Excavator - 20 - 30 Ton, Daily Rate	\$ 1,210	\$ 1,240	\$ 1,271
14	Excavator - 20 - 30 Ton, Weekly Rate	\$ 3,300	\$ 3,383	\$ 3,467
15	Excavator - 20 - 30 Ton, Monthly Rate	\$ 9,900	\$ 10,148	\$ 10,401
16	Thumb Attachment for Excavator, Daily Rate	\$ 165	\$ 169	\$ 173
17	Thumb Attachment for Excavator, Weekly Rate	\$ 440	\$ 451	\$ 462
18	Thumb Attachment for Excavator, Monthly Rate	\$ 1,430	\$ 1,466	\$ 1,502
19	Dozer - 20 Ton or Less, Daily Rate	\$ 1,210	\$ 1,240	\$ 1,271
20	Dozer - 20 Ton or Less, Weekly Rate	\$ 3,410	\$ 3,495	\$ 3,583
21	Dozer - 20 Ton or Less, Monthly Rate	\$ 10,230	\$ 10,486	\$ 10,748
22	Dump Truck (15 Yard), Daily Rate	\$ 1,100	\$ 1,128	\$ 1,156
23	Dump Truck (15 Yard), Weekly Rate	\$ 3,300	\$ 3,383	\$ 3,467
24	Dump Truck (15 Yard), Monthly Rate	\$ 9,900	\$ 10,148	\$ 10,401
25	Haul Truck (30 Ton Capacity), Daily Rate	\$ 1,650	\$ 1,691	\$ 1,734
26	Haul Truck (30 Ton Capacity), Weekly Rate	\$ 4,950	\$ 5,074	\$ 5,201
27	Haul Truck (30 Ton Capacity), Monthly Rate	\$ 14,850	\$ 15,221	\$ 15,602
28	Generator, Daily Rate	\$ 138	\$ 141	\$ 144
29	Generator, Weekly Rate	\$ 550	\$ 564	\$ 578
30	Generator, Monthly Rate	\$ 1,650	\$ 1,691	\$ 1,734
31	4x4 Forklift, Daily Rate	\$ 825	\$ 846	\$ 867
32	4x4 Forklift, Weekly Rate	\$ 1,320	\$ 1,353	\$ 1,387
33	4x4 Forklift, Monthly Rate	\$ 3,960	\$ 4,059	\$ 4,160
34	Fusion Machine 6" or less, Daily Rate	\$ 165	\$ 169	\$ 173
35	Fusion Machine 6" or less, Weekly Rate	\$ 660	\$ 677	\$ 693
36	Fusion Machine 6" or less, Monthly Rate	\$ 1,980	\$ 2,030	\$ 2,080
37	Fusion Machine 6" to 18", Daily Rate	\$ 495	\$ 507	\$ 520
38	Fusion Machine 6" to 18", Weekly Rate	\$ 1,980	\$ 2,030	\$ 2,080
39	Fusion Machine 6" to 18", Monthly Rate	\$ 5,940	\$ 6,089	\$ 6,241
40	Fusion Machine 24" to 36", Daily Rate	\$ 1,100	\$ 1,128	\$ 1,156
41	Fusion Machine 24" to 36", Weekly Rate	\$ 4,400	\$ 4,510	\$ 4,623
42	Fusion Machine 24" to 36", Monthly Rate	\$ 13,200	\$ 13,530	\$ 13,868
43	Electrofusion Processor, Daily Rate	\$ 165	\$ 169	\$ 173
44	Electrofusion Processor, Weekly Rate	\$ 660	\$ 677	\$ 693
45	Electrofusion Processor, Monthly Rate	\$ 1,980	\$ 2,030	\$ 2,080

NOTES:

1. The equipment rates above do not include Fuel. Fuel will be billed as T&M with a 15% Markup.
2. Daily Rates (Labor and Equipment) are based on an 8-hour working day.
3. Heavy Equipment rates do not include an Equipment Operator.
4. Mob/Demob charge of \$550 may be applied for non-routine services.