

Table A  
Promontory Point Landfill Phase 1A  
Preliminary Closure Cost Estimate

Item No.	Description	Estimated Quantity		2019 Unit Price	Total
1	<b>FINAL COVER</b>				
	Mobilization/Demobilization <sup>1.1</sup>	1	ls	\$81,703	\$81,703
	Preliminary Grading/Subgrade Preparation <sup>1.2</sup>	695000	sf	\$0.11	\$73,745
	GCL (Deck)	216068	sf	\$0.80	\$171,949
	40 Mil VFPE Liner (Deck)	216068	sf	\$0.85	\$183,413
	Geocomposite (Deck)	216068	sf	\$0.69	\$149,023
	Final Grading/Vegetative Cover 18" Thick (Deck)	216068	sf	\$0.32	\$68,780
	Evapotranspirative Cover (Slopes) <sup>1.3</sup>	50466	cy	\$2.65	\$133,871
Settlement Monument Installation	3	ea	\$530.54	\$1,592	
Construction Survey	1	ls	\$15,916.23	\$15,916	
					<b>\$879,992</b>
2	<b>FINAL COVER CONSTRUCTION QUALITY ASSURANCE <sup>2.0</sup></b>				
	Monitoring, Inspecting, Testing and Reporting	16	ac	\$7,958.11	\$127,330
					<b>\$127,330</b>
3	<b>EROSION CONTROL (REVEGETATION) <sup>3.0</sup></b>				
	Drill Seeding	5	ac	\$2,122.16	\$10,611
	Hydroseeding	11	ac	\$2,122.16	\$23,344
					<b>\$33,955</b>
4	<b>ENVIRONMENTAL CONTROL</b>				
	Monitoring and Control Systems <sup>4.0</sup>	-	-		\$0
	Raise LFG Well Heads <sup>4.1</sup>	16	ea	\$1,273.30	\$20,373
	Synthetic Boots (Deck)	5	ea	\$795.81	\$3,979
					<b>\$24,352</b>
5	<b>DRAINAGE CONTROL SYSTEM</b>				
	Drainage Control System (incl. berms, downdrains inlets etc.) <sup>5.0</sup>	16	ac	\$10,610.82	\$169,773
					<b>\$169,773</b>
6	<b>STRUCTURE REMOVAL/ABANDONMENT</b>				
	Demolition-Scale House/Salvage Scales <sup>6.0</sup>	1	ls	\$53,054.09	\$53,054
	Decommissioning of Environmental Control System <sup>6.1</sup>	-	-		\$0
					<b>\$53,054</b>
7	<b>CONSTRUCTION MANAGEMENT</b>				
	Construction Management <sup>7.0</sup>	16	ac	\$10,610.82	\$169,773
					<b>\$169,773</b>
	<b>Total Preliminary Closure Cost</b>				<b>\$1,458,229</b>

Footnotes\*:

- 1.0 Assumes all soil necessary for closure is stockpiled on site.
- 1.1 Includes necessary permits, health & safety plan, SWPPP, bid bond, office equipment, trailer, utilities, office support, general labor, a miscellaneous charges to be incurred by the contractor. Based on approximately 7% of total construction cost including final cover, ge system modification, drainage improvements and demo.
- 1.2 Includes: scarifying and recompacting the interim cover and subgrade preparation, assumes 1 foot of material is in place.
- 1.3 Evapotranspirative cover is based on a 4-foot thick cover section, volume of earthwork assumes 1 foot of cover is in place.
- 2.0 Based on the Final Cover CQA procedures included with the permit revision.
- 3.0 Assumes the usage of native plant species that exhibits low long-term maintenance needs, thus eliminating the need for an irrigation system.
- 4.0 No cost is included in this category because the gas monitoring system, groundwater monitoring system and leachate collection system will be in-place at closure.
- 4.1 Assumes one LFG extraction well per acre will need to be extended through the final cover, wells in the liner area will also require a synthetic boot.
- 5.0 Costs for constructing downdrains, inlets, bench channels and top deck berm. Does not include perimeter drainage and basins, that will be in place prior to closure.
- 6.0 Cost assumes the removal of scales and the scale house, any required backfill, and disconnecting electrical components.
- 6.1 Assumes that no environmental control systems will be decommissioned/abandoned at closure.
- 7.0 Cost (including final report) for construction management services includes third party construction management throughout the duration of construction.

Table B  
Promontory Point Landfill Preliminary Annual Post-Closure  
Maintenance Cost Estimate Phase 1A

Item No.	Description	Estimated Quantity		2019 Unit Price	Total
<b>1</b>	<b>EROSION CONTROL/VEGETATIVE LAYER MAINTENANCE</b>				
	Hydroseeding	0.5	ac	\$2,122	\$1,061
	Vegetative Layer/Final Grading Maintenance <sup>1.0</sup>	0.25	ac	\$72,154	\$18,038
	Quarterly Inspections <sup>1.1</sup>	24	hr	\$64	\$1,528
					\$20,627
<b>2</b>	<b>GAS COLLECTION/ CONTROL/MONITORING SYSTEM</b>				
	Quarterly Inspections	64	hr	\$64	\$4,075
					\$4,075
<b>3</b>	<b>LEACHATE REMEDIATION/ CONTROL</b>				
	Leachate Collection/ Removal System Sampling <sup>3.0</sup>	2	ea	\$1,379	\$2,759
	Quarterly Inspections	32	hr	\$64	\$2,037
					\$4,796
<b>4</b>	<b>GROUNDWATER MONITORING SYSTEM AND SURFACE WATER MONITORING</b>				
	Groundwater Sampling/Analysis/Inspections				
	Semi-Annual Sampling <sup>4.0</sup>	10	ea	\$212	\$2,122
	Lab Analysis <sup>4.0</sup>	10	ea	\$1,358	\$13,582
	Monitoring and Statistical Analysis	40	hr	\$64	\$2,547
	Surface Water Sampling/Analysis/ Inspections <sup>4.1</sup>	40	hr	\$64	\$2,547
	Repair and Maintenance (assume replacement of a well every 5 years)	1	ls	\$10,611	\$10,611
					\$31,408
<b>5</b>	<b>DRAINAGE MAINTENANCE/IMPROVEMENTS</b>				
	Drainage Maintenance/Improvements	0.5	ac	\$10,611	\$5,305
					\$5,305
<b>6</b>	<b>REPORTING</b>				
	Annual Summary Report <sup>6.0</sup>	80	hr	\$64	\$5,093
					\$5,093
<b>7</b>	<b>CORRECTIVE ACTION</b>				
	Corrective Action	-	-		\$0
					\$0
<b>Subtotal Preliminary Annual Post-Closure Maintenance Cost</b>					<b>\$71,305</b>
<b>Total 30-Year Preliminary Post-Closure Maintenance Cost</b>					<b>\$2,139,141</b>

Footnotes\*:

- 1.0 Cover stabilization, settlement repair and erosion control. Cost based on closure cost estimate, converted to a cost per acre, includes mob, survey cover components, CQA and CM.
- 1.1 Includes cost for quarterly inspections for cover erosion, settlement, fencing and vegetation.
- 2.0 All monitoring frequencies are in accordance with the Utah Administrative Code Rule R315-303.
- 3.0 Assumes that leachate generation will be negligible following closure.
- 3.1 Cost includes quarterly inspections of the sumps and clean out pipes.
- 4.0 Assumes groundwater system consists of 4 wells and a blind duplicate each sampled semi-annually for a total of 10 samples per year plus QA sa  
Cost includes semi-annual sampling and lab analysis of the groundwater monitoring system.  
for the groundwater monitoring plan and list of constituents.
- 4.1 Cost includes sampling, analysis and quarterly inspections of the surface water monitoring system.
- 5.0 Based on closure cost estimate; assumes 0.5 acres of drainage will be repaired each year.
- 6.0 Cost includes annual reports for gas collection/control system, leachate collection system and groundwater/ surface water monitoring system.
- 7.0 The site is not currently operational, therefore there are no known releases of contaminants.

Table B  
Promontory Point Landfill Preliminary Annual Post-Closure  
Maintenance Cost Estimate Phase 1A

