

## **Attachment 3 - Closure and Post Closure**

## CURRENT AREA OPEN

### Section 1.0 - Engineering

(AREA= 304,920 FT SQ)

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
1.1	<b>Topographic Survey</b>	LS	\$3,500	1	\$3,500
1.2	<b>Boundary Survey for Closure</b>	NA	\$0	0	\$0
1.3	<b>Site Evaluation</b>	NA	\$0	0	\$0
1.4	<b>Development of Plans (Cover)</b>	LS	\$2,000	1	\$2,000
1.5	<b>Contract Administration - (Bidding and Award)</b>	LS	\$0	0	\$0
1.6	<b>Administrative Costs - (Certification of Final Cover and Closure Notice)</b>	LS	\$2,000	1	\$2,000
1.7	<b>Project Management - (Construction Observation and Testing)</b>	LS	\$2,000	1	\$2,000
1.8	<b>Monitor Well Consultant Cost</b>	NA			\$0
1.9	<b>Other Environmental Permit Costs</b>	NA			\$0
<b>Engineering Subtotal</b>					<b>\$9,500</b>

### Section 2.0 - Construction

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	<b>Final Cover System</b>				
2.1.1	<b>Site Preparation/ Site Regrading</b>	ACRE	\$1,500	7.0	\$10,500
2.1.2	<i>Gas Collection Layer/Pipes</i>				\$0
2.1.3	<i>Low permeability Layer (Soil - If Applicable)</i>				
a	Soil Purchase	NA			\$0
b	Soil Processing (load)	NA			\$0
c	Soil Transportation	NA			\$0
d	Soil Placement	NA			\$0
e	Soil Amendment (compact)	NA			\$0
2.1.4	<i>Low permeability Layer (Synthetic - If Applicable)</i>				
a	Geotextile	NA			\$0
b	GCL	SQ FT			\$0
c	Geomembrane (HDPE,PVC,LLDPE,etc...)	SQ FT			\$0
2.1.5	<i>Drainage Layer (Soil - If Applicable)</i>				
a	Geotextile	NA			\$0
b	Sand/Gravel	NA			\$0
2.1.6	<i>Drainage Layer (Synthetic - If Applicable)</i>				
a	Geotextile	NA			\$0
b	Geonet/Geocomposite	SQ FT			\$0
2.1.7	<b>Erosion Protection Soil Layer</b>				
a	Soil Purchase	NA			\$0
b	Soil Processing (load)	CY	\$0.50	5,647	\$2,823
c	Soil Transportation	CY	\$2.00	5,647	\$11,293
d	Soil Placement	CY	\$0.75	5,647	\$4,235
e	Soil Amendment (compact)	CY			\$0
2.1.8	<b>Topsirol Layer</b>				
a	Soil Purchase	NA			\$0
b	Soil Processing (load)	CY	\$0.50	5,647	\$2,823
c	Soil Transportation	CY	\$2.00	5,647	\$11,293
d	Soil Placement	CY	\$0.75	5,647	\$4,235
e	Soil Amendment	NA			\$0
2.1.9	<b>Revegetation</b>				
a	Seeding	ACRE	\$800	7.0	\$5,600
b	Fertilizing	ACRE	\$800	7.0	\$5,600
c	Mulch	ACRE	\$200	7.0	\$1,400
d	Tacifier	ACRE	\$200	7.0	\$1,400
2.2	<b>Stormwater Protection Structures</b>				
a	Culverts	NA			\$0
b	Pipes	NA			\$0
c	Ditches/Berms	FT	\$16	500	\$8,000
d	Detention Basins	NA			\$0
2.3	<b>Gas Collection System</b>				
a	Design	NA			\$0
b	Additional Gas Collection Wells and Connection	NA			\$0
2.4	<b>Leachate Collection System</b>				
a	Design	NA			\$0
b	Additional Equipment / Installation	NA			\$0
2.5	<b>Groundwater Monitoring System</b>				
a	Monitor Well Installation	NA			\$0
b	Monitor Well Abandonment	NA			\$0
2.6	<b>Site Security</b>				
a	Lighting, signs, etc...	NA			\$0
b	Fencing and Gates	NA			\$0
2.7	<b>Miscellaneous</b>				
a	Performance Bonds	LS			\$0
b	Contract/Legal fees	LS			\$0
<b>Construction Subtotal</b>					<b>\$69,203</b>

LS - LUMP SUM

NA - NOT APPLICABLE

EA - EACH

CY - CUBIC YARD

FT - FEET

<b>Total</b>	\$78,703
<b>10% Contingency</b>	\$7,870
<b>Subtotal Closure Cost</b>	<b>\$86,574</b>

## LANDFILL POST-CLOSURE COSTS (30 YEARS)

### Section 1.0 - Engineering

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
1.1	Post-Closure Plan	NA			\$0
1.2	Annual Report (including results from gas, leachate, and ground water sampling - details of maintenance performed)	LS	\$1,000	30	\$30,000
a	Quarterly Site Inspections	LS	\$640	120	\$76,800
b	Plan Update	LS	\$1,000	3	\$3,000
<b>Engineering Subtotal</b>					<b>\$109,800</b>

### Section 2.0 - Gas Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS			\$0
2.2	Sample Analysis	NA			\$0
2.3	Report (Part of Annual Report)				\$0
<b>Gas Collection System - Sampling Subtotal</b>					<b>\$0</b>

### Section 3.0 - Leachate Collection System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
2.1	Sample Collection	LS			\$0
2.2	Sample Analysis	NA			\$0
2.3	Report (Part of Annual Report)				\$0
<b>Leachate Collection System - Sampling Subtotal</b>					<b>\$0</b>

### Section 4.0 - Ground Water Monitoring System - Sampling

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
3.1	Sample Collection	NA			\$0
3.2	Sample Analysis	NA			\$0
3.3	Report	NA			\$0
<b>Ground Water Collection System - Sampling Subtotal</b>					<b>\$0</b>

### Section 5.0 - Facility Operations and Maintenance

Item	Description	Unit Measure	Cost/Unit	No. Units	Total Cost
4.1	Cover				
a	Soil Replacement	LS	\$5,000	6	\$30,000
b	Vegetation/Reseeding	LS	\$2,000	6	\$12,000
4.2	Storm Water Protection Structures				
a	Ditch and Culvert Maintenance	LS	\$500	30	\$15,000
b	Berm and Basin Maintenance	LS	\$500	30	\$15,000
4.3	Gas Collection System				
a	System Operation	NA			\$0
b	System Repair	NA			\$0
4.4	Leachate Collection System				
a	System Operation	NA			\$0
b	System Repair	NA			\$0
4.5	Ground Water Monitoring System				
a	System Operation	NA			\$0
b	System Repair	NA			\$0
4.6	Site Security				
a	Lighting, signs, etc...	LS	\$500	30	\$15,000
b	Fencing and Gates	LS	\$500	30	\$15,000
4.7	Miscellaneous				
a					
b					
<b>Facility Operations and Maintenance Subtotal</b>					<b>\$102,000</b>

<b>Total</b>	\$211,800
<b>10% Contingency</b>	\$21,180
<b>Total Post-Closure Cost</b>	<b>\$232,980</b>

## LANDFILL CLOSURE AND POST-CLOSURE COSTS

Closure of Largest Area Open			
	Section 1.0 - Engineering	\$9,500	
	Section 2.0 - Construction	\$69,203	
	10% Contingency	\$7,870	
	Subtotal		\$86,574
Landfill Post-Closure Costs (30 years)			\$232,980
<b>TOTAL LANDFILL CLOSURE AND POST-CLOSURE COSTS</b>			<b><u>\$319,554</u></b>

2020

STATEMENT OF ACCOUNT  
**P T I F**  
UTAH PUBLIC TREASURERS' INVESTMENT FUND

David Damsechen, Utah State Treasurer, Fund Manager  
PO Box 142315  
350 N State Street, Suite 180  
Salt Lake City, Utah 84114-2315  
Local Call (801) 538-1042 Toll Free (800) 395-7665  
www.treasurer.utah.gov

ESC-EMERY COUNTY LANDFILL  
EMERY COUNTY TREASURER  
PO BOX 595  
CASTLE DALE UT 84513

**Account** **Account Period**  
**2576** December 01, 2020 through December 31, 2020

**Summary**

Beginning Balance	\$ 390,933.78	Average Daily Balance	\$ 390,933.78
Deposits	\$ 162.52	Interest Earned	\$ 162.52
Withdrawals	\$ 0.00	360 Day Rate	0.4828
Ending Balance	\$ 391,096.30	365 Day Rate	0.4895

Date	Activity	Deposits	Withdrawals	Balance
12/01/2020	FORWARD BALANCE	\$ 0.00	\$ 0.00	\$ 390,933.78
12/31/2020	REINVESTMENT	\$ 162.52	\$ 0.00	\$ 391,096.30
12/31/2020	ENDING BALANCE	\$ 0.00	\$ 0.00	\$ 391,096.30