



February 28, 2012

Division of  
Solid and Hazardous Waste

**MAR - 1 2013**  
**2013-002150**

SW 102

Scott Anderson, Director  
Department of Environmental Quality  
Division of Solid and Hazardous  
195 North 1950 West, 2<sup>nd</sup> Floor  
Salt Lake City, UT 84114

Subject: ECDC Environmental 2012 Annual Solid Waste Report

Dear Mr. Anderson;

Please find enclosed the ECDC Environmental Annual Solid Waste Report for the 2012 calendar year. The report includes the following attachments: 2012 Health, Safety and Training Schedule, quarterly gas monitoring reports.

The 2012 groundwater monitoring reports were previously submitted.

The Closure and Post Closure, CPC, cost estimates have been updated by the DEQ recommended CPI of 1.01767 and certified by Geo-Logic Associates. ECDC is in the process of updating the financial assurance bond to reflect the current estimates, and will provide the bond as soon as it becomes available.

If you have any questions please feel free to contact me at 435-888-4418 (22).

Sincerely,

Darin Olson

Attachments:

# SOLID WASTE LANDFILL ANNUAL REPORT

For Calendar year 2012

MAR - 1 2013

2013-002150

## Administrative Information (Please enter all the information requested below - type or print legibly)

Facility Name: ECDC Environmental  
 Facility Mailing Address: 1111 West Highway 123, PO Box 69  
(Number & Street, Box and/or Route)  
 City: East Carbon Zip Code: 84520  
 County: Carbon Permit No.: 9422R1

### Owner

Name: ECDC Environmental Phone No. : (435) 888-4451  
 Mailing Address: 1111 West Highway 123, PO Box 69  
(Number & Street, Box and/or Route)  
 City: East Carbon State: Utah Zip Code: 84520  
 Contact's Name: Darin Olson Title: Environmental Manager  
 Contact's Mailing Address: 1111 West Highway 123, PO Box 69  
 Phone No.: (435) 888-4418 Contact's Email Address:  
dolson@republicservices.com

### Operator (Complete this section only if the operator is not an employee of the Owner shown above)

Name: Same as Above Phone No.: ( )  
 Mailing Address: \_\_\_\_\_  
(Number & Street, Box and/or Route)  
 City: East Carbon State: Utah Zip Code: \_\_\_\_\_  
 Contact's Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Contact's Mailing Address: \_\_\_\_\_  
 Phone No.: ( ) Contact's Email Address: \_\_\_\_\_

## Facility Type and Status

- Class I                       Class IIIb                       Class V  
 Class II                       Class IVa                       Class VI  
 Class IIIa                       Class IVb

Facility operates separate cells for C/D and municipal waste. Yes  No   
 If facility was permanently closed during the year enter date closed: N/A

## Annual Disposal

Total tons received at facility for disposal:

Waste Type	Waste Origin		Total	Measurement	
	In-State	Out-of-State		Tons	Cubic Yards
Municipal	<u>16,006</u>	<u>0</u>	<u>16,006</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Industrial	<u>8,026</u>	<u>287,730</u>	<u>295,755</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
C/D <sup>1</sup>	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>

<sup>1</sup>C/D waste includes all waste going to a Class IV or VI landfill cell

## Conversion Factor Used

X None Used  From rules  List Site Specific Conversion: \_\_\_\_\_

**Recycling**

Material Recycled: 0 Tons  Cubic Yds.   
(Material recycled should not be included in disposed tons reported. Report compost on separate form. Circle tons or yards)

**Utah Disposal Fee**

Disposal Fee Required to be Paid to State Yes X No

Fee Paid	Municipal	\$ 2,081	C/D	\$
	Industrial	\$ 739,389	Annual	\$

(Municipal, Industrial and C/D are fees paid by Commercial Facilities Annual fee is paid by facilities operated by a municipality)

**Landfill Capacity**

Current Landfill Remaining Capacity  
Tons: 602,309,232 @ 3,320 lbs/cy      Cubic Yards: 362,795,130  
Years: 1,448      Acres: 1,715

Acres Currently Open: 107      Acres Currently Closed: 50

**Financial Assurance**

Current Closure Cost Estimate: \$1,081,285

Current Post-Closure Cost Estimate: \$1,459,728

Current Amount or Balance in Mechanism: \$2,541,013

(If facility permit has been renewed if balance does not equal or exceed total for closure and post-closure care please contact the Division)

Current Financial Assurance Mechanism: Bond

(ie. Bond, Trust Fund, Corporate or government Test etc.)

Mechanism Holder and Account Number: Evergreen National Indemnity Company, 80134

(ie. Name of Bond Company, Bank etc. Account number)

**Financial Assurance:** Each facility must recalculate the cost of closure and post-closure care to account for inflation and design changes each year. The inflation factor can be found on the Division web page.

Facilities that are using a trust account should include a copy of the most recent account statement.

*Note* Facilities using "Local Government Financial Test" or the "Corporate Financial Test" must provide the information required in R315-309-8(4) or R315-309-9(3) each year.

**Other Required Reports**

Ground Water Monitoring: Class I and V landfills only. Check if exempt

Explosive Gas Monitoring: Class I, II and V landfills only. Check if exempt

Training Report: A report of all training programs or procedures completed by facility personnel during the year.

Signature:  Date: 2/15/13

Signature should be by an executive officer, general partner, proprietor, elected official, or a duly authorized representative. A duly authorized representative must meet the requirements of the solid waste rules (UAC R315-310-2(4)(d)).

Print name: Tim Powell      Title: Area President



## 2012 Health, Safety and General Training Schedule - BU 453

	Source	Training	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Fall Protection, Ladders and Walking Surfaces	AW S/M	All					5							
Fire Extinguishers	AW S/M	All								8				
Flammable & Combustible Liquids	AW S/M	All	1											
Grinders/Hand Tools/Machine Guarding	AW SM	All												12
Hot Work/Welding Operations	AW SM	All								8				
Jacks/Stands/Hook Inspections	AW SM	All	1											
Overhead Cranes/Slings/Chains	AW SM	All		2										
Pre-Trip/Post Trip - VCR's	Misc	All									9			
Preventive Maintenance	Misc	All												12
Tire Rim Safety	Misc	All					5							
Towing a Vehicle	Misc	All											11	

### Safety Standards and Republic Manuals

Cell Phones, Radios & Other Distractions	Stndrds	All				4								
Disposal Facility Safety Standard	Stndrds	All						6						
Employee Safe Work Practices Handbook	Manual	All			3									
Equipment Maintenance Manuals	LEM	Mngrs			3									
Facility & Vehicle Security	Stndrds	All					5							
Heavy Equipment Operators Manual	Manual	All			3									
High Visibility Clothing	Stndrds	All											11	
Housekeeping - Walking - Working	Stndrds	All										10		
Landfill Standards Manual	Manual	All			3									
Summer Safety Plan - Winter Weather Cklist	Site Plan	All					5						11	
Temporary Labor	Stndrds	All										10		
Transfer Station Standards Manual	Manual	All			3									

### Smith System - 5 Keys

#1 Aim High in Steering	Plan	All	1							7				
#2 Get the Big Picture	Plan	All		2							8			
#3 Keep your eyes Moving	Plan	All			3							9		
#4 Leave Yourself an Out	Plan	All				4							10	
#5 Make Sure They See You	Plan	All					5							11

### Other/Safety Topics

Cold Stress & PPE	Area Safety	All	1											
First Aid & CPR Training	Misc	All				4								
Fuel Awareness	Memo	All											11	
Heat Stress	Misc	All						6	7					
Mounting/Dismounting Equipment - 3 pnts	Area Safety	All				4								
Trenching & Excavating	Misc	All									9			

### ROPE - WCLF

Barrow Area Management Plan	Site Plan	All	1											
Bird Control Plan	Site Plan	All	1											
Communications Plan	Site Plan	All		2										
Community Relations Plan	Site Plan	All			3									
Customer Service - Complaint Log	ROPE	All				4								
Density Improvement Plan/Daily Cover	Site Plan	All					5							
Equipment Washing Procedures	LMM	All						6						
Facility Vegetation Plan	Site Plan	All							7					

## 2012 Health, Safety and General Training Schedule - BU 453

	Source	Training	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Fire Control Methods/Hot Loads	Site Plan	All								8				
Managing Overweight Loads	ROPE	Mngrs									9			
Odor Management Plan	Site Plan	All										10		
Operator Training Program - Documented	ROPE	All											11	
Push Offs, Pull Off's and Dig Outs	ROPE	All												12
Radiation Check & Alarm Procedures	Site Plan	All	1											
Safe Tipper Operation	ROPE	All		2										
Scavenging	Permit	All			3									
Signage Verification	ROPE	Mngrs				4								
Solidification SOP	Site Plan	All					5							
Special Waste Acceptance Procedures	SWMP	All						6						
Truck Towing	SAFE	All							7					

### Company Policy and Controls

Americans with Disabilities Act	HRS-101	All		2										
Attendance/Leave/Breaks	Area	All	1											
Bereavement Leave	HRS-102	All										10		
Bulletin Board Postings		Mngrs	1											
Budgets and Forecasts	Acct	Mngrs							7					
Business Ethics/Aware Line	G-101	Mngrs		2										
Capital Addition (CA) Form	Acct	Mngrs			3									
Capital Transfer (CT) Form	Acct	Mngrs					5							
Dress Code	HRS-105	All									9			
Drug & Alcohol Free Workplace	SFT-101	All												12
Employee Corrective Action	HRS - 109	All										10		
Environmental Compliance	ENG-101	Mngrs								8				
General Accounting - Lawson	Acct	Mngrs									9			
Levels of Authority	LGL-116	Mngrs												12
Meal Period Policy for Non-Exempt Emp	PAY-101	All							7					
Military Leave of Absence	HRS-108	Mngrs						6						
Month End Close	Acct	Mngrs											11	
Post Collection Operations	OPS-101	All				4								
Procurement Cards	PRO-105	Mngrs								8				
Reporting of Internal Control Breaches	IAD - 102	Mngrs						6						
Safety	SFT-102	All		2										
Sexual and Other Harassment	HRS-118	All			3									
Special Waste Management	ENG-102	All											11	
Travel & Reimbursable Business Expense	T&E-101	All				4								
Workplace Violence and Weapon	HRS - 110	All					5							

### Regulatory

DEQ Commencal Facility Inspection	Form	Mngrs		2										
Liner/Protective Cover Procedures	Plan	All					5							
DEQ Operating Plan/Permit	Plan	All								8				
Start Up, Shut Down & Malfunction Plan - Flare	Plan	Mngrs									9			

## ECDC ENVIRONMENTAL LANDFILL 2012 GAS MONITORING RESULTS

Location	Q1		Q2		Q3		Q4	
	Date	% LEL	Date	% LEL	Date	% LEL	Date	% LEL
1 ) Administration Building Crawl Space	1/14/2012	0	5/8/2012	0	9/12/2012	0	12/19/2012	0
2 ) Southwest Corner of Rotary Ground Level	1/14/2012	0	5/8/2012	0	9/12/2012	0	12/19/2012	0
3 ) Southeast Corner of Supercell 1, Scale House, Ground Level	1/14/2012	0	5/8/2012	0	9/12/2012	0	12/19/2012	0
4 ) Southwest Corner of Intermodal Yard Ground Level	1/14/2012	0	5/8/2012	0	9/12/2012	0	12/19/2012	0
5 ) Northwest Corner of Cell 7, Scale House, Ground Level	1/14/2012	0	5/8/2012	0	9/12/2012	0	12/19/2012	0
6 ) North property Boundary, Near Solidifier	1/14/2012	0	5/8/2012	0	9/12/2012	0	12/19/2012	0
7 ) South Property Boundary, Near Cell 10	1/14/2012	0	5/8/2012	0	9/12/2012	0	12/19/2012	0

Notes Tests performed by Darin Olson, Environmental Manager, with an Industrial Cosmotector, LEL monitor, model XP-311  
 Locations are specified in the DEQ approved Plan of Operations

Name Darin Olson

Signature 

# Geo-Logic ASSOCIATES

February 6, 2013

Project No. 2013.A004

Mr. Darin Olson  
Republic Services  
1111 West Hwy 123  
East Carbon, UT 84520

**Re: 2013 Closure Post-Closure Estimate for the ECDC Environmental Landfill**

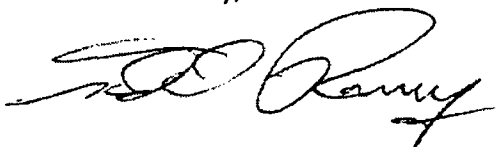
Dear Darin,

Per your request, Geo-Logic Associates (GLA) has revised the Closure and Post-Closure Cost Estimate for the ECDC Environmental Landfill operated by Republic Services, Inc. (Republic). This letter is provided to certify that the attached estimates (Tables 1 through 3) were prepared in accordance with generally accepted civil engineering and waste management practices and in accordance with the requirements of 40 CFR 258.60, Subpart F. It should be noted that no corrective action is anticipated for the site and therefore, no costs for corrective action are provided in the estimates.

The 2013 Closure and Post-Closure Costs were derived after reviewing the previous cost estimates and adjusting the cost spreadsheets, where applicable, by the Utah Department of Environmental Quality (UDEQ) Inflation Adjustment of 1.01767. Please note that there were no changes from the 2012 to 2013 Closure Cost due to an increase in the landfill area from expansion construction or new closure activities.

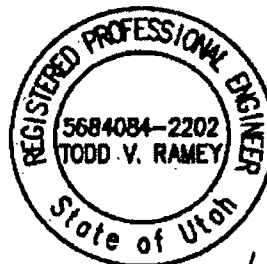
We hope this provides you with the information you requested. If you have any question regarding the cost estimate, please contact me at your earliest convenience at (530) 272-2448.

Yours sincerely,



Todd Ramey, P.E.  
Senior Project Manager

Enclosure - Tables 1 through 3



Exp. 3/31/13

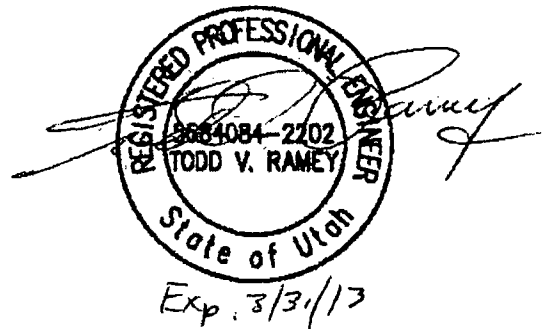


**TABLE 1  
ECDC LANDFILL  
FINAL CAPPING COST ESTIMATES SUMMARY**

<b>AREA OF UNLINED LANDFILL:</b>		<b>0 SQ. FT.</b>		
<b>AREA OF LINED LANDFILL:</b>		<b>2,172,900 SQ. FT.</b>		
<b>SIZE OF CLOSURE AREA:</b>		<b>49.9 ACRES</b>		
CLOSURE COSTS	MEASURE	UNIT COST <sup>(1)</sup>	QUANTITY	TOTAL
Grading of Waste/Surface Preparation <sup>(5)</sup>	Cubic Yard	\$ 3 37	47,600	\$ 160,614.16
Surveying	Acre	\$ 230 31	.50	\$ 11,492.26
<b>Supply &amp; Placement of Cover Soil <sup>(2)(3)</sup></b>				
Contractor Mobilization/Demobilization	Lump Sum	\$ 69,627 32	1	\$ 69,627 32
Borrow Area Clearing	Acre	\$ 428 48	5	\$ 2,142 38
Alternate Final Cover Layer (18")	Cubic Yard	\$ 3 37	120,700	\$ 407,271.62
Topsoil Layer (6")	Cubic Yard	\$ 3.37	40,200	\$ 135,644.73
<b>Subtotal - Supply and Placement of Cover Soil</b>				<b>\$ 614,686.06</b>
<b>Supply &amp; Application of Seed</b>				
Seeding	Acre	\$ 374 92	50	\$ 18,708.33
Texturing Topsoil	Acre	\$ 428 48	50	\$ 21,380 94
<b>Subtotal - Supply and Application of Seed</b>				<b>\$ 40,089.27</b>
<b>Earthwork for Stormwater Management</b>				
Drainage Improvements <sup>(4)</sup>	Lump Sum	\$ 107,118.96	1	\$ 107,118.96
<b>Subtotal - Earthwork for Stormwater Management</b>				<b>\$ 107,118.96</b>
<b>Other: (List)</b>				
Project Mgmt. & QC/QA (Construction Oversight, QC/QA Testing during Installation, & CQA Report)	Acre	\$ 2,185 23	50	\$ 109,042 81
Engineering & Construction Drawings	Lump Sum	\$ 38,241.47	1	\$ 38,241.47
<b>Subtotal - Other</b>				<b>\$ 147,284.28</b>
<b>TOTAL</b>				<b>\$ 1,081,284.98</b>

**NOTES:**

- 1 - Unit rates are reported in 2013 third-party dollars
- 2 - Final cover system consist of (top to bottom) 6" Topsoil Layer and 18" of Alternate Final Cover Layer.
- 3 - Initial 12" of foundation layer is placed as part of daily/intermediate cover.
- 4 - Based on approximately 10,500 lineal feet of diversion channel, approximately 750 lineal feet of downdrain, and misc. drainage improvements.
- 5- Quantity for amount of soil moved to smooth surface and provide for positive drainage

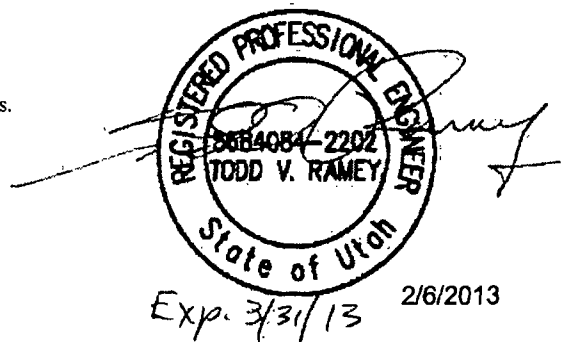


**TABLE 2  
ECDC LANDFILL  
POST-CLOSURE COST ESTIMATES SUMMARY**

<b>LENGTH OF CLOSURE ACTIVITIES:</b>		<b>30 YEARS</b>				
<b>LANDFILL AREA<sup>(5)</sup>:</b>		<b>106.8 ACRES</b>				
<b>FINAL CLOSURE COSTS</b>		<b>COST/ YEAR</b>	<b>30-YEAR TOTAL</b>			
Closure Certification <sup>(1)(4)</sup>		\$ 1,671.70	\$ 50,150.95			
<b>MAINTENANCE COSTS<sup>(1)(4)</sup></b>						
Security, fencing, gates, signs, access, etc		\$ 1,922.45	\$ 57,673.60			
Erosion repair, settlement repair, revegetation		\$ 5,572.33	\$ 167,169.84			
Surface water control maintenance (run-on/run-off)		\$ 2,786.16	\$ 83,584.92			
Monitoring system maintenance, repair, replacement		\$ 1,114.47	\$ 33,433.97			
Leachate collection system, repair, replacement		\$ 1,114.47	\$ 33,433.97			
<b>Subtotal - Maintenance Costs</b>		<b>\$ 12,509.88</b>	<b>\$ 375,296.30</b>			
<b>MONITORING COSTS<sup>(2)(3)(4)</sup></b>		<b># OF WELL/PTS</b>	<b># OF SAMPLES</b>	<b>FREQ/ YR</b>	<b>COST/ SAMPLE</b>	<b>COST/ YEAR</b>
<b>Groundwater</b>						
3rd Party/Sample Collection <sup>(3)</sup>		3	1	2	\$ 182.11	\$ 1,092.64
3rd Party/Statistical Analysis <sup>(3)</sup>		1	1	2	\$ 819.46	\$ 1,638.92
Lab Analysis		3	1	2	\$ 400.63	\$ 2,403.77
<b>Subtotal - Groundwater Monitoring</b>					<b>\$ 5,135.33</b>	<b>\$ 154,059.79</b>
<b>Leachate Analysis</b>						
3rd Party/Sample Collection <sup>(3)</sup>		2	1	2	\$ -	\$ -
Lab Analysis (Bi-Annual for 10 years)		2	1	2	\$ 327.78	\$ 1,311.14
<b>Subtotal - Leachate Analysis</b>					<b>\$ 1,311.14</b>	<b>\$ 39,334.08</b>
<b>Landfill Gas</b>						
3rd Party/Operation and Maintenance <sup>(3)(6)</sup>				12	\$ 4,391.88	\$ 52,702.53
<b>Subtotal - Landfill Gas</b>					<b>\$ 52,702.53</b>	<b>\$ 790,537.89</b>
<b>Oversite Inspection</b>						
3rd Party Oversite Inspections			4	4	\$ 104.89	\$ 1,678.31
<b>Subtotal - Oversite Inspection</b>					<b>\$ 1,678.31</b>	<b>\$ 50,349.19</b>
<b>TOTAL</b>					<b>\$ 73,330.56</b>	<b>\$ 1,459,728.21</b>

**NOTES:**

- 1 - Rates are reported in 2013 third-party dollars.
- 2 - Surface water monitoring costs are not included due to no local surface water sources.
- 3 - Estimate reflects third-party semi-annual sample collection, lab analysis and statistical evaluation, monitoring and facility inspection, conducted together, when appropriate.
- 4 - All overhead for oversight and record keeping included within unit rates
- 5 - Includes both closed and open areas of Cell 7, Super Cell, and Cell 10
- 6 - The landfill gas operation and maintenance total cost is based on operating the system for 15 years.

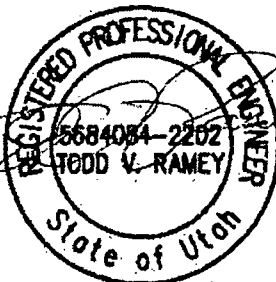


**TABLE 3  
ECDC LANDFILL  
CLOSURE / POST-CLOSURE CARE COST SUMMARY**

<b>SIZE OF CLOSURE AREA:</b>	<b>49.9 ACRES</b>
<b>TOTAL CLOSURE COSTS:</b>	<b>\$ 1,081,285</b>
<b>TOTAL POST-CLOSURE COSTS:</b>	<b>\$ 1,459,728</b>
<b>TOTAL CORRECTIVE ACTION COSTS:</b>	<b>\$ -</b>
<b>TOTAL COST ESTIMATE:</b>	<b>\$ 2,541,013</b>

**NOTES:**

- 1 - Total costs are reported in 2013 third-party dollars.
- 2 - Includes a complete gas collection and control system (GCCS).
- 3 - Corrective actions are currently not anticipated at site


  
 Exp. 3/31/13