

SW214
RECEIVED

SOLID WASTE COMPOST FACILITY ANNUAL REPORT

FEB 17 2012

For Calendar year 2011

UTAH DIVISION OF
SOLID & HAZARDOUS WASTE

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

Facility Name: Washington County Sanitary Landfill 2012.00405
Facility Mailing Address: 325 N Landfill Road
(Number & Street, Box and/or Route)
City: Washington Zip Code: 84780
County: Washington

Owner

Name: Washington County SSD#1 Phone No.: (435)673-2813
Mailing Address: 325 N Landfill Road
(Number & Street, Box and/or Route)
City: Washington State: Utah Zip Code: 84780
Contact's Name: Neil Schwendiman Title: District Manager
Contact's Mailing Address: 325 N Landfill Road
Phone No.: (435)619-8808 Contact's Email Address: wcsw@hi-speed.us

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

Name: Republic Services (AW) Phone No.: (435)628-2821
Mailing Address: 557 N Industrial Road
(Number & Street, Box and/or Route)
City: St. George State: Utah Zip Code: 84790
Contact's Name: Jason Godfrey Title: General Manager
Contact's Mailing Address: 557 N Industrial Road
Phone No.: (435)628-2821 Contact's Email Address: _____

Facility Status

Currently in Operation Closed - Date: _____
(The "Closed - Date" is the date that all material was removed from the site)

Annual Totals

Waste received in reporting period: 14,312 Tons Cubic Yds
Product removed: 3,147 Tons Cubic Yds
Has facility operated according to approved plan of operation Yes No
If no please contact the Solid Waste Section at 801/536-0200

Signature:  Date: 2-17

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: Neil Schwendiman Title: District Manager

SOLID WASTE LANDFILL ANNUAL REPORT

For Calendar year 2011

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

Facility Name: Washington County Sanitary Landfill
 Facility Mailing Address: 325 N Landfill Road
(Number & Street, Box and/or Route)
 City: Washington Zip Code: 84780
 County: Washington Permit No.: 9410R2

Owner

Name: Washington County SSD#1 Phone No.: (435)673-2813
 Mailing Address: 325 N Landfill Road
(Number & Street, Box and/or Route)
 City: Washington State: Utah Zip Code: 84780
 Contact's Name: Neil Schwendiman Title: District Manager
 Contact's Mailing Address: 325 N Landfill Road
 Phone No.: (435)673-2813 Contact's Email Address: wcsw@hi-speed.us

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

Name: Republic Services Phone No.: (435)628-2821
 Mailing Address: 557 N Industrial Road
(Number & Street, Box and/or Route)
 City: St. George State: Utah Zip Code: 84770
 Contact's Name: Jason Godfrey Title: General Manager
 Contact's Mailing Address: 557 N Industrial Road
 Phone No.: (435)628-2821 Contact's Email Address: JGodfrey@republicservice

Facility Type and Status

- | | | |
|---|-------------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> Class I | <input type="checkbox"/> Class IIIb | <input type="checkbox"/> Class V |
| <input type="checkbox"/> Class II | <input type="checkbox"/> Class IVa | <input type="checkbox"/> Class VI |
| <input type="checkbox"/> Class IIIa | <input type="checkbox"/> 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: _____

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>127575</u>	<u>12220</u>	<u>139795</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Industrial	_____	_____	_____	<input type="checkbox"/>	<input type="checkbox"/>
C/D ¹	<u>11208</u>	_____	<u>11208</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>

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

Conversion Factor Used

None From rules Site Specific Conversion (please list): _____

Recycling

Material Recycled: 5,018 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 No (If yes please show fees paid below)

Municipal \$ _____ C/D \$ _____
Industrial \$ _____ Annual \$ 14700

(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: 177,905
Years: 1.3

Cubic Yards: 236105
Acres: 1

Acres Currently Open: 62 Acres Currently Closed: 0

Financial Assurance

Current Closure Cost Estimate: \$3,979,704

Current Post-Closure Cost Estimate: \$1,463,485

Current Amount or Balance in Mechanism: \$5,319,983
(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: Utah PTIF
(ie. Bond, Trust Fund, Corporate or government Test etc.)

Mechanism Holder and Account Number: PTIF Accounts 2102 & 2103
(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 Reports and Information

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
Sent electronically on 10-27-11 HARD COPY TO BE SUBMITTED BY REPUBLIC SERVICES

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

Does the facility have a landfill gas collection system Yes No If yes please briefly describe use of gas, e.g., flared or used for electricity generation. Flared

Signature:  Date: 2-13-12

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: NEIL SCHWENDIMAN Title: District Manager

Geo-Logic

ASSOCIATES

January 31, 2012
Project No. 2012.A007

Mr. Todd Whittle
Republic Services
770 East Sahara Avenue
Las Vegas, NV 89104

Re: 2012 Closure Post-Closure Estimate for the Washington County Landfill

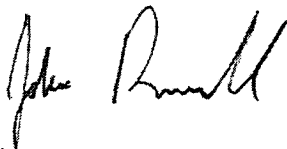
Dear Todd,

Per your request, Geo-Logic Associates (GLA) has revised the Closure and Post-Closure Cost Estimate for the Washington County 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 2012 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 1.02105. Please note that there were no changes from the 2011 to 2012 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,



Jake Russell, P.E. No. 5881834-2202
Manager of Grass Valley Operations

Enclosure - Tables 1 through 3

TABLE 1
WASHINGTON COUNTY LANDFILL
FINAL CAPPING COST ESTIMATES SUMMARY

AREA OF UNLINED LANDFILL:		2,051,310 SQUARE FEET		
AREA OF LINED LANDFILL:		625,533 SQUARE FEET		
SIZE OF CLOSURE AREA:		61.5 ACRES		
CLOSURE COSTS	MEASURE	UNIT COST ⁽¹⁾	QUANTITY	TOTAL
Grading of Waste/Surface Preparation	Acre	\$ 3,224.75	62	\$ 198,321.95
Surveying	Acre	\$ 1,074.92	62	\$ 66,107.32
Supply & Placement of Cover Soil ⁽²⁾⁽³⁾				
Contractor Mobilization/Demobilization	Lump Sum	\$ 69,869.52	1	\$ 69,869.52
Final Cover Borrow Source Identification (Testing and Labor)	Lump Sum	\$ 11,183.42	1	\$ 11,183.42
Low-Permeability Infiltration Layer (18")	Cubic Yard	\$ 11.18	114,000	\$ 1,274,910.25
Protective Soil Cover for Geomembrane (12")	Cubic Yard	\$ 8.17	23,200	\$ 189,529.14
Topsoil Layer (6")	Cubic Yard	\$ 3.17	49,600	\$ 157,281.67
Subtotal - Supply and Placement of Cover Soil				\$ 1,702,774.00
Supply & Placement of Geosynthetics				
40-mil Double-Textured LLDPE Geomembrane Cap	Square Feet	\$ 0.20	625,533	\$ 122,375.94
Geomembrane Cap Installation	Square Feet	\$ 0.11	625,533	\$ 70,601.50
Geocomposite (250 mil Drainage Net, Double-Sided 8 oz. Geotextile)	Square Feet	\$ 0.45	625,533	\$ 279,044.03
Geocomposite Drainage Layer Installation	Square Feet	\$ 0.09	625,533	\$ 57,153.60
Subtotal - Supply and Placement of Geosynthetics				\$ 529,175.07
Supply & Application of Seed				
Seed Purchase	Acre	\$ 419.38	62	\$ 25,791.77
Seed Application	Acre	\$ 419.38	62	\$ 25,791.77
Subtotal - Supply and Application of Seed				\$ 51,583.54
Earthwork for Stormwater Management				
Drainage Improvements	Lump Sum	\$ 195,634.66	1	\$ 195,634.66
Subtotal - Earthwork and Stormwater Management				\$ 195,634.66
Landfill Gas Control System Installation				
Complete Gas Collection & Control System (GCCS)	Lump Sum	\$ 1,062,873.63	1	\$ 1,062,873.63
Subtotal - Landfill Gas Control System Installation				\$ 1,062,873.63
Other: (List)				
Project Mgmt. & QC/QA (Construction Oversight, QC/QA Testing during Installation, & CQA Report)	Acre	\$ 2,192.83	62	\$ 134,858.93
Engineering & Construction Drawings	Lump Sum	\$ 38,374.49	1	\$ 38,374.49
Subtotal - Other				\$ 173,233.42
2012 TOTAL				\$ 3,979,703.59

NOTES:

- 1 - Unit rates are reported in 2012 third-party dollars.
- 2 - Final cover system (top to bottom): 6" topsoil layer, 18" of low-perm soil (unlined area); 6" topsoil layer, 12" soil cover, 40 mil LLDPE (lined area).
- 3 - Initial 12" of foundation layer is placed as part of daily/intermediate cover.
- 4 - Corrective actions are currently not occurring on-site or anticipated on-site..

**TABLE 2
WASHINGTON COUNTY LANDFILL
POST-CLOSURE COST ESTIMATES SUMMARY**

LENGTH OF CLOSURE ACTIVITIES:							30 YEARS	
FINAL CLOSURE COSTS						COST/ YEAR	30-YEAR TOTAL	
Closure Certification ⁽¹⁾⁽⁴⁾						\$ 1,642.67	\$ 49,280.17	
MAINTENANCE COSTS⁽¹⁾⁽⁴⁾								
Security, fencing, gates, signs, access, etc.						\$ 1,929.14	\$ 57,874.22	
Erosion repair, settlement repair, revegetation						\$ 5,591.71	\$ 167,751.35	
Surface water control maintenance (run-on/run-off)						\$ 2,795.86	\$ 83,875.67	
Monitoring system maintenance, repair, replacement						\$ 1,118.34	\$ 33,550.27	
Leachate collection system, repair, replacement						\$ 1,118.34	\$ 33,550.27	
Subtotal - Maintenance Costs						\$ 12,553.39	\$ 376,601.78	
MONITORING COSTS⁽²⁾⁽³⁾⁽⁴⁾			# OF WELL/PTS	# OF SAMPLES	FREQ/ YEAR	COST/ SAMPLE	COST/ YEAR	
Groundwater								
3rd Party/Sample Collection ⁽³⁾			3	1	2	\$ 182.74	\$ 1,096.44	
3rd Party/Statistical Analysis ⁽³⁾			1	1	2	\$ 822.31	\$ 1,644.62	
Lab Analysis			3	1	2	\$ 402.02	\$ 2,412.13	
Subtotal - Groundwater						\$ 5,153.19	\$ 154,595.70	
Leachate Analysis								
3rd Party/Sample Collection ⁽³⁾			2	2	2	\$ -	\$ -	
Lab Analysis (Bi-Annual for 10 years)			2	2	2	\$ 328.92	\$ 2,631.39	
Subtotal - Leachate Analysis						\$ 2,631.39	\$ 78,941.81	
Landfill Gas								
3rd Party/Operation and Maintenance ⁽³⁾⁽⁵⁾			25	1	12	\$ 167.69	\$ 50,306.06	
Subtotal - Landfill Gas						\$ 50,306.06	\$ 754,590.84	
Oversite Inspection			HRS/ INSPECT.	FREQ/ YEAR	COST/ SAMPLE	COST/ YEAR		
3rd Party Oversight Inspections			4	4	\$ 103.07	\$ 1,649.17		
Subtotal - Oversight Inspection						\$ 1,649.17	\$ 49,474.97	
Total for 2012						\$ 73,935.87	\$ 1,463,485.26	

NOTES:

- 1 - Rates are reported in 2012 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 - The landfill gas operation and maintenance total cost is based on operating the system for 15 years.

**TABLE 3
WASHINGTON COUNTY LANDFILL
CLOSURE/POST-CLOSURE CARE COST SUMMARY**

SIZE OF CLOSURE AREA:	61.5 ACRES
TOTAL CLOSURE COSTS:	\$ 3,979,704
TOTAL POST-CLOSURE COSTS:	\$ 1,463,485
TOTAL CORRECTIVE ACTION COSTS:	\$ -
TOTAL COST ESTIMATE:	\$ 5,443,189

NOTES:

- 1 - Total Costs are reported in 2012 third-party dollars.
- 2 - Includes a complete gas collection & control system (GCCS).
- 3 - Corrective actions are currently not anticipated at the site.



January 31, 2012
Project No. 2012.A007

Mr. Todd Whittle
Republic Services
770 East Sahara Avenue
Las Vegas, NV 89104

Re: 2012 Landfill Data Update for the Washington County Landfill

Dear Todd,

Per your request, Geo-Logic Associates (GLA) has prepared this letter to update the landfill data Washington County Landfill operated by Republic Services, Inc. (Republic). Below is a summary of the data we collected for you:

The following information was gathered from the Republic 2012 Aerial Budget Model.

- Constructed remaining life as of 12/31/11 = 1.3 yrs
- Constructed remaining capacity as of 12/31/11 = 236,105 cy
- Constructed remaining tons as of 12/31/11 = 177,905 tons
- Remaining contract site life as of 12/31/11 = 7.65 yrs
- Remaining contract capacity as of 12/31/11 = 1,345,108 cy
- Remaining contract tons as of 12/31/11 = 1,080,794 tons

The following was derived from information presented in the 2007 Master Plan and the 2009, 2010, 2011, and 2012 Aerial Budget Models.

- Remaining total capacity as of 3/11/07 (including daily/intermediate cover) = 33,768,900 cy
- Net airspace consumed between 3/11/07 and 12/31/11 = 1,007,132 cy
- Remaining total capacity as of 12/31/11 (including daily/intermediate cover) = 32,761,768 cy
- Remaining total site life as of 12/31/11 (assuming no growth factor & 14,147 cy/mo) = 193 yrs

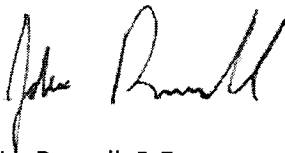
- Remaining total site life as of 3/11/07 (assuming 2% growth factor & 741 ton/day) = 55 yrs
- Remaining total tons as of 12/31/11 = 26,324,081 tons

The following information was gathered from the Republic 2012 Aerial Budget Model.

- Total area to be used during contract life = 500.0 acres
- Total area used = 60.3 acres
- Total area unused = 439.7 acres
- Area to final grade = 24.3 acres
- Total area closed = 0 acres

If you have any questions regarding the information provided, please feel free to contact me at your earliest convenience. Our phone number is (530) 272-2448 and Fax number is (530) 272-8533.

Yours sincerely,



Jake Russell, P.E.
Manager of Grass Valley Operations

**Washington County
Solid Waste Special Service District No. 1
Quarterly Landfill Gas Monitoring Results**
1st Quarter 2011

Date: 03/31/11

Time: 0800a

Name of Gas Sample Collector: Kerry J Bass

Temperature: 58

Weather: breezy

Monitoring device should be calibrated prior to initiating sampling. Accomplished? Yes

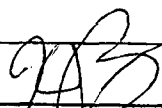
Monitoring Device Used: CSE Corporation Permissible Methane Detector Model 102

Methane Monitoring Location		Measured %LEL	Internal Action Limit (Half of Regulatory Limit) %LEL	Regulatory Action Limit %LEL
NW Corner of Scale House	Outside	0.0%	12	25
	Inside	0.0%	12	25
North Boundry		0.0%	50	100
South Boundry		0.0%	50	100
NW Corner of Treatment Pond		0.0%	12	25
SW Corner of Composting Area		0.0%	12	25

Gas Sample Collector: If measured % LEL equals or exceeds internal action limit, contact the facility manager.

Facility Manager: If measured %LEL equals or exceeds regulatory action limit, notify the State Director in compliance with 40 CFR 258.23c.

Comments:



Gas Sample Collector

Washington County
Solid Waste Special Service District No. 1
Quarterly Landfill Gas Monitoring Results
2nd Quarter 2011

Date: 06/30/2011

Time: 0730a

Name of Gas Sample Collector: Kerry J Bass

Temperature: 74

Weather: calm

Monitoring device should be calibrated prior to initiating sampling. Accomplished? Yes

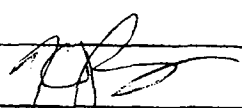
Monitoring Device Used: CSE Corporation Permissible Methane Detector Model 102

Methane Monitoring Location		Measured %LEL	Internal Action Limit (Half of Regulatory Limit) %LEL	Regulatory Action Limit %LEL
NW Corner of Scale House	Outside	0.0%	12	25
	Inside	0.0%	12	25
North Boundry		0.0%	50	100
South Boundry		0.0%	50	100
NW Corner of Treatment Pond		0.0%	12	25
SW Corner of Composting Area		0.0%	12	25

Gas Sample Collector: If measured % LEL equals or exceeds internal action limit, contact the facility manager.

Facility Manager: If measured %LEL equals or exceeds regulatory action limit, notify the State Director in compliance with 40 CFR 258.23c.

Comments:



 Gas Sample Collector

**Washington County
Solid Waste Special Service District No. 1
Quarterly Landfill Gas Monitoring Results**
3rd Quarter 2011

Date: 09/30/2011

Time: 0745a

Name of Gas Sample Collector: Kerry J Bass

Temperature: 68

Weather: slight breeze

Monitoring device should be calibrated prior to initiating sampling. Accomplished? Yes

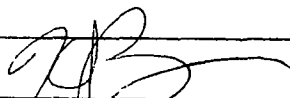
Monitoring Device Used: CSE Corporation Permissible Methane Detector Model 102

Methane Monitoring Location		Measured %LEL	Internal Action Limit (Half of Regulatory Limit) %LEL	Regulatory Action Limit %LEL
NW Corner of Scale House	Outside	0.0%	12	25
	Inside	0.0%	12	25
North Boundry		0.0%	50	100
South Boundry		0.0%	50	100
NW Corner of Treatment Pond		0.0%	12	25
SW Corner of Composting Area		0.0%	12	25

Gas Sample Collector: If measured % LEL equals or exceeds internal action limit, contact the facility manager.

Facility Manager: If measured %LEL equals or exceeds regulatory action limit, notify the State Director in compliance with 40 CFR 258.23c.

Comments:



Gas Sample Collector

**Washington County
Solid Waste Special Service District No. 1
Quarterly Landfill Gas Monitoring Results
4th Quarter 2011**

Date: 12/30/2011

Time: 0745am

Name of Gas Sample Collector: Kerry J Bass

Temperature: 28

Weather: slight breeze

Monitoring device should be calibrated prior to initiating sampling. Accomplished? Yes

Monitoring Device Used: CSE Corporation Permissible Methane Detector Model 102

Methane Monitoring Location		Measured %LEL	Internal Action Limit (Half of Regulatory Limit) %LEL	Regulatory Action Limit %LEL
NW Corner of Scale House	Outside	0.0	12	25
	Inside	0.0	12	25
North Boundry		0.0	50	100
South Boundry		0.0	50	100
NW Corner of Treatment Pond		0.0	12	25
SW Corner of Composting Area		0.0	12	25

Gas Sample Collector: If measured % LEL equals or exceeds internal action limit, contact the facility manager.

Facility Manager: If measured %LEL equals or exceeds regulatory action limit, notify the State Director in compliance with 40 CFR 258.23c.

Comments:


Gas Sample Collector

2011 Safety Training Topics

Allied Waste – Washington County Landfill

JANUARY

Focus 6 – Employee Safety
MSDS /Hazard Communicaton
Towing a Vehicle
Customer Liability Waiver Sheet
Cold Stress

FEBRUARY

Focus 6 – Backing
Asbestos
Special Waste Identification
Lockout / Tagout
Hot Loads / Fire Procedures
Hazardous Waste Identification
Sexual and Other Harassment
A.W.A.R.E. Line

MARCH

Focus 6 – Rear Collisions
Emergency Action Plan / Procedures
Fire / Emergency Drill
Spills and SWPPP
Hot Work Permit / Welding

APRIL

Focus 6 – Intersections
PPE
Proper Lifting / Pushing / Pulling
Slips / Trips / Falls
Cranes / Slings / Chains

MAY

Focus 6 – Heat Conserdations
Confined Space
Fire Extinguisher Use
Heat Stress
Equipment Safety
Walking Surfaces

JUNE

Focus 6 – Pedestrians
Bloodborne Pathogens
Seat Belt Use
Mounting / Dismounting Equipment

JULY

Focus 6 – Roll Over
Electrical Safety
Battery Safety
Hearing Protection
Compressed Gas
Flammables / Combustibles
Hand and Power Tools
Machine Guarding

AUGUST

Focus 6 – Backing
Intersections
Safe Backing

SEPTEMBER

Focus 6 – Employee Safety
Substance Abuse
Housekeeping
Equipment Inspections

OCTOBER

Focus 6 – Intersections
Jack Inspections
Cold Stress / Winter Driving
Safe Backing

NOVEMBER

Focus 6 – Adverse Weather
Smith System
Fire / Emergency Drill

DECEMBER

Focus 6 – Year in Review
Safe Work Habits
Drug and Alcohol Policy
Accident Reporting