SW101

WASATCH
waste management district

Division of
Solid and Hazardous Waste

FEB 28 2013

2013-002167

February 27, 2012

Scott Anderson, Director
Utah Division of Solid and Hazardous Waste
288 North 1460 West
Salt Lake City, Utah 84114-4880
Attention: Rob Powers

Re: 2012 Davis Energy Recovery Facility Annual Reports

Dear Mr. Anderson:

Please find the following documents transmitted with this letter to satisfy the annual reporting requirements of the Utah Administration Code R315-302-2(4) for the Davis Energy Recovery Facility which is owned and operated by Wasatch Integrated Waste Management District.

- Calendar year 2012 Solid Waste Incinerator Annual Report (State Form)
- Report of training programs and procedures completed by facility personnel during 2012
- Report of the 2012 Ash Residue Characterization Report conducted at the Davis Energy Recovery Facility
- Financial Assurance documentation required by UACR315-309

Please do not hesitate to contact me if you have any questions regarding these submissions.

Sincerely,

Wasatch Integrated Waste Management District

Nathan Rich, P.E.
Executive Director

attachments
cc: Davis County Health Department

P.O. Box 900
Layton, Utah 84041-0900

1997 East 3500 North
Layton, Utah 84040

801 614.5600
801.771.6438 fax

Division of
Solid and Hazardous Waste

SOLID WASTE INCINERATOR ANNUAL REPORT

FEB 28 2013

For Calendar year 2012

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

Facility Name: Davis Energy Recovery Facility
Facility Mailing Address: P.O. Box 900
(Number & Street, Box and/or Route)
City: Layton Zip Code: 84041
County: Davis Permit No.: 9423R1

Owner
Name: Wasatch Integrated Waste Phone No.: (801)614-5600
Mailing Address: P.O. Box 900
(Number & Street, Box and/or Route)
City: Layton State: Utah Zip Code: 84041
Contact's Name: Nathan Rich Title: Executive Director
Contact's Mailing Address: Same as above
Phone No.: (801)614-5601 Contact's Email Address: nathanr@wiwmd.org

Operator *(Complete this section only if the operator is not an employee of the Owner shown above)*
Name: Phone No.: ( )
Mailing Address:
(Number & Street, Box and/or Route)
City: State: Utah Zip Code:
Contact's Name: Title:
Contact's Mailing Address:
Phone No.: ( ) Contact's Email Address:

Facility Type and Status

☒ Large Incinerator
Capacity greater than ten tons per day

☐ Small Incinerator
Capacity is 10 tons per day or less but greater than 250 pounds per week

☐ Permit Not Required
Non-commercial with capacity of 250 pounds or less per week

☒ Currently in Operation ☐ Facility Closed During Year - Date:
(The " - Date" is the date that all waste and ash were removed from the site)

Waste Incinerated

Total tons received at facility for incineration:

Waste Type	Waste Origin In-State	Waste Origin Out-of-State	Total	Measurement Tons	Measurement Cubic Yards
Municipal	120,700	3421	124121	☒	☐
Industrial	541		541	☒	☐
C/D				☐	☐

[1]C/D waste includes construction/demolition, yard waste, dead animals, and other waste (see rule R315-301-2(12))

Conversion Factor Used

☒ None ☐ From rules ☐ Site Specific (please list factors used):

Ash Disposal

Tons of ash disposed: 33,796.16

Facility at which ash was disposed: Davis Landfill

Recycling

Material Recycled: 43.17 Tons ☒ Cubic Yds. ☐

(Material recycled should not be included in disposed tons reported Report compost on separate form Circle tons or yards)

Fee Paid to the Utah Department of environmental Quality

Disposal Fee Required to be paid to State Yes ☒ No ☐ (If yes please show fees paid below)

Municipal	$	C/D	$
Industrial	$104.10	Annual	$14,700.00

Financial Assurance

Current Closure Cost Estimate: $92,110.00

Current Post-Closure Cost Estimate: $0.00

Current Amount or Balance in Mechanism: $11,331,145/$5,176,264

(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: Government Test/PTIF Escrow

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

Mechanism Holder and Account Number: W1WMD Utah State Treasurer #6579

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

Financial Assurance: Each facility must recalculate the cost of closure 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

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

Signature: _____ **Date:** 2-27-13

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: Nathan Rich Title: Executive Director

Wasatch Integrated Waste Management District
2012 Plant Training Report

Wasatch Integrated Waste Management District Plant personnel completed the following training during 2012.

NEW HIRE TRAINING

Each new full time and temporary employee completes the following training before being assigned to any task at the facility including:

- Orientation
- Briefing on waste-to-energy specific hazards
- Hazard communication
- Safety equipment requirements
- Emergency gathering points
- Hazardous materials
- Safety and District OSHA Programs(s) Manual Review and Overview
- Task specific training

MONTHLY SAFETY MEETINGS

Monthly safety meetings are held to discuss OSHA standards, PPE training, equipment operation, site specific training, first aid, hazardous materials training, and solid Waste Association of North America (SWANA) waste training. Attendance is mandatory at safety/training meetings. All employees certify that presented material, process/procedure, and training of subject matter were understood.

ADDITIONAL SAFETY MEETINGS

Additional safety meetings to discuss immediate safety issues particular to the facility are held on an as needed basis. Attendance is mandatory at safety/training meetings. All employees certify that presented material, process/procedure, and training of subject matter were understood.

TRAINING SCHEDULE

January	DOT-HAZWOPER 8 hour Refresher; OSHA Air and Blood Born Pathogen Refresher; Power Wash Basic Safety Orientation
February	OSHA HAZCOM-MSDS Refresher; New Hire Orientation
March	OSHA Confined Space; New Hire Orientation
April	AHA First Aid/CPR/AED; Pre Maintenance Shut Down Awareness /LOTO Refresher
May	Temporary Employee and Contractor Safety Orientation; Plant Maintenance Shut Down
June	OSHA Fire Prevention/Fire Extinguisher; New Hire Orientation
July	Power Wash Operations/Safety Review
August	OSHA Hearing Protection Refresher; Power Wash Basic Safety Orientation
September	Forklift Basic Safety Orientation; OSHA Electrical Hazards Awareness; Temporary Employee Orientation
October	Propane Cylinder Fill/Transport Safety
December:	HAZMAT Site Specific – PHMSA Emergency Response Guide; DOT-HAZWOPER 8 hour Refresher

WASATCH
INTEGRATED
waste management district

October 26, 2012

Scott T. Anderson, Director
Utah Division of Solid and Hazardous Waste
PO Box 144880
Salt Lake City, Utah 84114-4880

Dear Mr. Anderson:

I am the chief financial officer of Wasatch Integrated Waste Management District. This letter is in support of the use of the financial test to demonstrate financial assurance for closure, post-closure care. Cost estimates covered by the local government financial test are shown for each facility.

Part i

Wasatch Integrated Waste Management District is the owner or operator of the following facilities in Utah for which financial assurance for closure of post-closure care is demonstrated through the financial test specified in R315-309-8. The current closure and/or post-closure cost estimates covered by the test are shown for each facility.

a.

Name: **Davis Class I Landfill**
Permit Number: **9419R2**
Address: **1997 East 3500 North, Layton, Utah 84040**
Closure Cost Estimate: **$8,924,929**
Post-Closure Cost Estimate: **$2,314,106**

b.

Name: **Davis Energy Recovery Facility**
Permit Number: **9423R1**
Address: **3404 North 650 East, Layton, Utah 84041**
Closure Cost Estimate: **$92,110**
Post-Closure Cost Estimate: **$0**

Total of all current closure and post-closure cost estimates from all facilities listed above: **$11,331,145**

The fiscal year of Wasatch Integrated Waste Management District ends on June 30. The Wasatch Integrated Waste Management District's independently audited; fiscal year-end financial statements for the latest completed fiscal year have been placed in the facilities operating record.

Part II

Alternative I – Bond Rating

The figures for the following items marked with an asterisk are derived from Wasatch Integrated Waste Management District independently audited, fiscal year-end financial statements for the latest completed fiscal year, ended June 30, 2012.

Current bond rating of most recent rated general obligation bonds that are not secured by insurance, a letter of credit, or other collateral guarantee for Wasatch Integrated Waste Management District.

1. Rating service and rating: **Not Apply**
2. Data of issuance of bond: **Not Apply**
3. Date of maturity of bond: **Not Apply**

Alternative II – Financial Ratios

1. *Total of cash and marketable securities: **$26,473,445**
2. *Total expenditures: **$19,019,551**
3. *Annual debt service: **$0**

Is line 1 divided by line 2 greater than or equal to .05? **Yes, 1.39**

Is line 3 divided by line 2 less than or equal to .20? **Yes, 0.00**

I hereby certify that Wasatch Integrated Waste Management District meets the requirements of Alternative II.

Part III

In additional, I hereby certify that Wasatch Integrated Waste Management District meets the following conditions:

- Wasatch Integrated Waste Management District's financial statements are prepared in conformity with Generally Accepted Accounting Principles for governments and has had these financial statements audited by an independent certified public account [UAC R315-309-8(2)(c)];

- Wasatch Integrated Waste Management District has operated at a deficit greater than 5% or more of total annual revenue in each of the past two fiscal years;

- Wasatch Integrated Waste Management District is not in default on any outstanding general obligation bonds and does not have any outstanding general obligation bonds rated lower than Baa as issued by Moody's or BBB as issued by Standard and Poor's;

- Wasatch Integrated Waste Management District's most recent fiscal year-end financial statements have not received an adverse opinion, a disclaimer of opinion, or a qualified opinion from the independent certified

public accountant that audits the financial statements as required under [UAC R315-309-8(4)], and

- Wasatch Integrated Waste Management District's financial statements comply with the requirements of Statement #18 of the Governmental Accountant Standards Board (GASB).

Part IV

- Wasatch Integrated Waste Management's total annual revenue: **$15,755,795** X .43 = **$6,774,992**

Amount that can be assured by the local government financial test: **$6,774,992**

Total of all landfill closure and post closure costs from Part I: **$11,331,145**

Total of all other assured environmental costs: **$0**

Total of all assured costs: **$11,331,145**

Total trust fund escrow account: **$5,176,264**

Total excess coverage: **$620,111**

I hereby certify that the statements, evidence provided, and certifications made in Parts I through IV above are correct and that Wasatch Integrated Waste Management District meets the requirements of UAC R315-309-8 a portion of the assured costs for closure, post-closure care, and/or remedial action for the above named facilities.

Signature:

Name: David Van De Graff

Title: Controller

Date: October 26, 2012

WASATCH INTEGRATED WASTE MANAGEMENT DISTRICT

Report on Application of Agreed-Upon Procedures

October 26, 2012

Crane, Christensen, Palmer & Ambrose
Certified Public Accountants
Business Advisors

Kent R. Christensen, CPA
Jeffrey L. Ambrose, CPA
Chuck Palmer, CPA

Independent Accountant's Report on
Application of Agreed-Upon Procedures

President and Board of Directors
Wasatch Integrated Waste Management District
P.O. Box 900
Layton, UT 84041-0900

We have performed the procedures enumerated below which were agreed to by you solely to assist the District in meeting its closure and post-closure care financial assurance requirements. This engagement to apply agreed-upon procedures was performed in accordance with standards established by the American Institute of Certified Public Accountants. The sufficiency of the procedures is solely the responsibility of the District's Board of Directors and Management. Consequently, we make no representation regarding the sufficiency of the procedures described below either for the purpose for which this report has been requested or for any other purpose.

PROCEDURES:

1. Confirm the data and statements contained in the letter dated October 26, 2012 from the District's controller David VanDeGraff are in agreement with the data and statements presented in the audited financial statements for the year ended June 30, 2012.

2. Confirm that the financial statements were prepared in conformity with Generally Accepted Accounting Principles for Governments.

3. Confirm that the District did not operate at a deficit equal to 5% or more of its total annual revenue for the past two years.

4. Confirm that the financial statements were audited by the independent certified public accountant.

5. Confirm that the District's audited financial statements did not receive an adverse opinion, disclaimer of opinion, or other qualified opinion from the auditor.

FINDINGS:

1. We confirmed that the data and statements contained in the letter dated October 26, 2012 from the District's controller were in agreement with audited financial statements for the year ended June 30, 2012.

2. We confirmed that the financial statements were prepared in conformity with Generally Accepted Accounting Principles for Governments.

3. The District did operate at a deficit equal to 5% or more of its total annual revenue for the past two years.

4. We confirmed that the financial statements were audited by the independent certified public accountant.

5. We confirmed that the District's audited financial statements did not receive an adverse opinion, disclaimer of opinion, or other qualified opinion from the auditor.

DISTRICT'S RESPONSE TO FINDING #3:

The District is not planning on replacing the Energy Recovery Facility; therefore, the District is not charging fees to cover the depreciation costs. Total depreciation and amortization cost has been $3,828,329 and $3,697,934 during the past two years. The net loss for the same two years was $2,985,522 and $452,169. At the end of the current year, the District had excess coverage for the current post closure costs of $619,591. In addition, the District has also increased its cash balances for the past two years by $1,019,686 and $616,528. The District's position is they are charging appropriate rates to generate the needed cash to finance the current operations, cover the post closure costs and capital asset needs for the future.

We were not engaged to and did not perform an audit, the objective of which would be the expression of an opinion on the specified elements, accounts or items. Accordingly, we do not express such an opinion. Had we performed additional procedures, other matters might have come to our attention that could have been reported to you. Additionally, we did not audit the District's response to finding #3 and, accordingly, we express no opinion on it.

This report is intended solely for the use of the District's Board of Directors and Management and should not be used by those who have not agreed to the procedures and taken responsibility for the sufficiency of the procedures for their purposes.

Crane, Christensen, Palmer + Ambrose P.C.

December 27, 2012

Solid Waste Section: EPA Documents

- The Volunteer Monitor's Guide to Quality Assurance Plans
  The guide has a lot of graphics that make it slow to view.
- EPA Illegal Dumping Prevention Guidebook

2012 Financial Assurance Inflation Adjustment

Each year's "Solid Waste Facility Annual Report" must contain, when applicable, inflation adjusted cost estimates for closure, post-closure care, and corrective action or a new cost estimate. If an inflation adjusted cost estimate is to be used, it must be based on US Department of Commerce, Bureau of Economic Analysis' (BEA) Gross Domestic Product implicit price deflator. To assist in the preparation of inflation adjusted cost estimates and to provide consistency the Division uses the January 27, 2012 number. For the annual report submitted March 1, 2012 the cost estimates from the 2012 report must be multiplied by **1.02105**.

If you have used an incorrect multiplier in the past, or you do not have a 2012 cost estimate, please contact Ralph Bohn (801-536-0212) for assistance in obtaining the correct previous values of the inflation multiplier to use.

Comments

For more information, please contact Ralph Bohn (801-536-0212).

Closure and Post Closure Costs as of:	6/30/2011	6/30/2012
CPI Adjustment	0.947900%	2.105000%
Multiplier	1.0094790	1.0210500
Landfill Closure Costs		
Unlined Cell Closure Costs (Closed)	$ -	$ -
Stage A Closure Costs (Closed)	$ -	$ -
Stage B Closure Costs - 2016	$ 3,882,118	$ 3,963,837
Stage C Closure Costs - 2019	$ 4,858,814	$ 4,961,092
Stage D Closure Costs - 2028	$ -	$ -
Stage E Closure Costs - 2019	$ -	$ -
Stage F Closure Costs - 2028	$ -	$ -
Stage G Closure Costs -2028	$ -	$ -
Total Landfill Closure Costs	**$ 8,740,932**	**$ 8,924,929**
Landfill Post Closure Costs	$ 2,266,398	$ 2,314,106
Total Landfill Closure and Post-Closure Costs	**$ 11,007,330**	**$ 11,239,035**
Energy Recovery Facility		
Total Energy Recovery Facility Closure Costs	$ 90,211	$ 92,110
Total Closure and Post Closure Costs	**$ 11,097,541**	**$ 11,331,145**
Permitted Landfill Capacity - Cubic Yards		
Permitted Unlined Cell Capacity	2,463,782	2,463,782
Permitted Lined Cell Capacity	6,066,887	6,066,887
Permitted Total Landfill Capacity	**8,530,669**	**8,530,669**
Total Landfill Capacity Used		
Permitted Unlined Cell Capacity Used	2,463,782	2,463,782
Permitted Lined Cell Capacity Used	2,359,872	2,558,405
Total Waste in Landfill	**4,823,654**	**5,022,187**
% Used	**57%**	**59%**
Total Landfill Capacity Remaining		
Remaining Capacity	3,707,015	3,508,482
% Remaining Capacity	43%	41%
Unlined Cell		
Permitted	2,463,782	2,463,782
Waste in Unlined Cell	2,463,782	2,463,782
Remaining	0	0
% Remaining	0%	0%
% Used	100%	100%
Lined Cell		
Permitted	6,066,887	6,066,887
Waste in Lined Cell	2,359,872	2,558,405
Remaining	3,707,015	3,508,482
% Remaining	61%	58%
% Used	39%	42%
Estimate Life of WTE		
Cost		
Buildings - Plant	$ 47,931,364	$ 13,705,282
Equipment - Plant	$ -	$ 34,741,627
Total Cost	**$ 47,931,364**	**$ 48,446,909**

Accumulated Depreciation		
Buildings - Plant	$ 40,763,188	$ 10,757,761
Equipment - Plant	$ -	$ 31,356,314
Total Depreciation	**$ 40,763,188**	**$ 42,114,075**
Net Book Value	**$ 7,168,176**	**$ 6,332,834**
% Used	85%	87%
Closure and Post Closure Liability		
Landfill Closure	$ 8,740,932	$ 8,924,929
% Used	39%	42%
Landfill Closure Liability (Lined Cells)	$ 3,408,963	$ 3,748,470
Landfill Post Closure	$ 2,266,398	$ 2,314,106
% Used (Total landfill)	57%	59%
Total Landfill Post Closure Liability	$ 1,291,847	$ 1,365,323
Total Landfill Closure & Post Closure Liability	$ 4,700,810	$ 5,113,793
Energy Recovery Facility Closure	$ 90,211	$ 92,110
Total Closure & Post Closure - Depreciation	85%	87%
Energy Recovery Facility Closure Liability	$ 76,679	$ 80,136
Total Closure & Post Closure Liability	$ 4,777,490	$ 5,193,928
Largest Area Closure Costs		
Unlineds Cell (Closed)	$ -	$ -
Stage A Closure (Closed)	$ -	$ -
Stage B Closure	$ 3,882,118	$ 3,963,837
Stage C Closure	$ 4,858,814	$ 4,961,092
Post Closure	$ 2,266,398	$ 2,314,106
Landfill Subtotal	$ 11,007,330	$ 11,239,035
Energy Recovery Facility Closure Costs	$ 90,211	$ 92,110
Total Largest Area Closure and Post-Closure Current Costs	$ 11,097,541	$ 11,331,145
Total Revenue	$ 15,807,202	$ 15,997,462
Less gain (Loss) on sale of assets	$ 2,135	$ 242,875
Total annual Revenue for fiscal year	$ 15,805,067	$ 15,754,587
43% of the local government's total revenue	43%	43%
Maximum allowable assurance by financial test	$ 6,796,179	$ 6,774,472
Coverage Requirement	$ 11,097,541	$ 11,331,145
Financial Test Allowance	$ 6,796,179	$ 6,774,472
Remaining	$ 4,301,362	$ 4,556,673
Escrow Balance	$ 4,682,287	$ 5,176,264
Coverage Excess (Short)	$ 380,925	$ 619,591
Cash + Marketable Securities	$ 25,453,759	$ 26,473,445
Total Expenditures	$ 16,259,372	$ 19,007,173
Ratio (> or = to 0.05)	1.57	1.39
Annual Debt Service	$ -	$ -
Total Expenditures	$ 16,259,372	$ 19,007,173
Ratio (< r= to 0.20)	0.00	0.00

Volumes in Place as of June 31, 2012

Year	Landfill: Yearly MSW Placement at Landfill (ton/yr)	(cy/yr)	MSW Cumulative (ton)	(cy)	Yearly Ash Placement (ton/yr)	(cy/yr)	Ash Cumulative (ton)	(cy)	Yearly MSW & Ash (ton/yr)	(cy/yr)	MSW & Ash Cumulative (ton)	(cy)	Waste Processed at Plant (ton/yr)	District Wide: Waste Disposed (ton/yr)	Percentage Increase in Tonnage
1953	885	1,476	885	1,476			0	0	885	1,476					
1954	1,771	2,951	2,656	4,427			0	0	1,771	2,951					
1955	2,656	4,427	5,312	8,854			0	0	2,656	4,427					
1956	3,542	5,903	8,854	14,757			0	0	3,542	5,903					
1957	4,427	7,378	13,281	22,135			0	0	4,427	7,378					
1958	5,312	8,854	18,594	30,989			0	0	5,312	8,854					
1959	6,198	10,330	24,791	41,319			0	0	6,198	10,330					
1960	7,083	11,805	31,875	53,125			0	0	7,083	11,805					
1961	7,969	13,281	39,843	66,406			0	0	7,969	13,281					
1962	8,854	14,757	48,698	81,163			0	0	8,854	14,757					
1963	9,740	16,233	58,437	97,395			0	0	9,740	16,233					
1964	10,625	17,708	69,062	115,103			0	0	10,625	17,708					
1965	11,510	19,184	80,572	134,287			0	0	11,510	19,184					
1966	12,396	20,660	92,968	154,947			0	0	12,396	20,660					
1967	13,281	22,135	106,249	177,082			0	0	13,281	22,135					
1968	14,167	23,611	120,416	200,693			0	0	14,167	23,611					
1969	15,052	25,087	135,468	225,780			0	0	15,052	25,087					
1970	15,937	26,562	151,405	252,342			0	0	15,937	26,562					
1971	16,823	28,038	168,228	280,380			0	0	16,823	28,038					
1972	17,708	29,514	185,936	309,894			0	0	17,708	29,514					
1973	18,594	30,989	204,530	340,883			0	0	18,594	30,989					
1974	19,479	32,465	224,009	373,348			0	0	19,479	32,465					
1975	20,364	33,941	244,373	407,289			0	0	20,364	33,941					
1976	21,250	35,416	265,623	442,705			0	0	21,250	35,416					
1977	22,135	36,892	287,758	479,597			0	0	22,135	36,892					
1978	23,021	38,368	310,779	517,965			0	0	23,021	38,368					
1979	23,906	39,843	334,685	557,808			0	0	23,906	39,843					
1980	24,791	41,319	359,476	599,127			0	0	24,791	41,319					
1981	25,677	42,795	385,153	641,922			0	0	25,677	42,795					
1982	26,562	44,271	411,718	686,193			0	0	26,562	44,271					
1983	27,448	45,746	439,183	731,939			0	0	27,448	45,746					
1984	28,333	47,222	467,496	779,161			0	0	28,333	47,222					
1985	29,219	48,698	496,715	827,856			0	0	29,219	48,698					
1986	30,104	50,173	526,819	878,032			0	0	30,104	50,173					
1987	30,989	51,649	557,808	929,681	1,742	1,161	1,742	1,161	32,731	52,810	559,550	930,842	6,898		
1988	31,875	53,125	589,683	982,805	27,147	18,098	28,889	19,259	59,022	71,223	618,572	1,002,064	103,616		
1989	32,760	54,600	622,443	1,037,405	30,609	20,406	59,498	39,665	63,369	75,006	681,941	1,077,071	111,549		
1990	33,646	56,076	656,089	1,093,481	30,214	20,143	89,712	59,808	63,860	76,219	745,801	1,153,289	109,623		
1991	34,531	57,552	690,620	1,151,033	29,874	19,783	119,386	79,591	64,205	77,334	810,006	1,230,624	109,022		
1992	35,416	59,027	726,036	1,210,060	31,583	21,122	151,069	100,713	67,099	80,149	877,105	1,310,773	104,826		
1993	36,302	60,503	762,338	1,270,563	24,077	16,051	175,146	116,764	60,379	76,554	937,484	1,387,327	101,615		
1994	46,426	80,708	810,763	1,351,272	32,493	21,655	207,629	138,419	60,908	102,364	1,018,392	1,601,651	125,463	173,888	
1995	72,761	121,268	883,524	1,472,540	33,938	22,625	241,567	161,045	106,699	143,894	1,125,091	1,704,014	126,662	199,413	15%
1996	67,610	112,683	951,134	1,585,223	31,398	20,932	272,965	181,977	99,008	133,615	1,224,099	1,647,908	122,602	190,212	-5%
1997	97,247	138,924	1,048,381	1,724,148	32,969	21,979	305,934	203,956	130,216	160,904	1,354,315	1,928,104	117,650	214,897	13%
1998	115,732	165,331	1,164,113	1,889,479	34,663	23,102	340,587	227,058	150,385	188,433	1,504,700	2,116,537	128,808	244,540	14%
1999	136,407	194,867	1,300,520	2,084,346	34,616	23,077	375,202	250,135	171,022	217,944	1,675,722	2,334,481	125,722	262,129	7%
2000	122,377	174,824	1,422,897	2,259,170	34,944	23,296	410,146	273,431	157,321	198,120	1,833,043	2,532,601	130,046	252,423	-4%
2001	148,999	212,856	1,571,896	2,472,026	30,468	20,305	440,604	293,736	179,457	233,161	2,012,500	2,765,762	113,687	262,586	4%
2002	123,775	176,821	1,695,671	2,648,848	32,439	21,626	473,043	315,382	156,214	198,447	2,168,714	2,964,210	120,148	243,921	-7%
2003	120,117	171,596	1,815,788	2,820,443	33,174	22,116	506,217	337,476	153,291	193,712	2,322,005	3,157,921	116,690	238,807	-2%
2004	125,256	178,937	1,941,044	2,999,380	36,337	24,225	542,554	361,703	161,593	203,162	2,483,598	3,361,083	124,101	249,357	4%
2005	135,059	192,941	2,076,103	3,192,322	33,408	22,272	575,962	383,975	168,467	215,213	2,652,065	3,576,297	116,262	251,311	1%
2006	137,723	196,747	2,213,826	3,389,068	37,475	24,983	613,437	408,958	175,197	221,730	2,827,262	3,798,026	127,416	265,138	6%
2007	155,035	221,478	2,368,860	3,610,547	33,345	22,230	646,781	431,187	188,379	243,708	3,015,642	4,041,734	123,240	278,275	5%
2008	144,214	206,020	2,513,074	3,816,567	33,648	22,432	680,429	453,619	177,862	228,452	3,193,504	4,270,186	123,241	267,455	-4%
2009	146,094	207,277	2,658,168	4,023,844	30,397	20,265	710,827	473,884	175,491	227,542	3,368,995	4,497,728	117,392	262,486	-2%
2010	130,282	186,117	2,788,450	4,209,961	31,858	21,239	742,685	495,123	162,140	207,356	3,531,135	4,705,084	124,360	254,642	-3%
2011	128,601	183,716	2,917,051	4,393,677	33,716	22,477	776,400	517,600	162,316	206,193	3,693,451	4,911,277	127,656	258,259	1%
June 12	70,657	101,224	2,987,908	4,494,901	14,530	9,687	790,930	527,286	85,386	110,910	3,778,838	5,022,187	66,924	127,780	-50%

Total Landfill:

8,530,669 = **Permitted Design Capacity of Landfill**
5,022,187 = **Waste in Landfill**
3,508,482 = **Volume Remaining Total Site**
59% = **Percentage of Total Landfill Used**

Unlined Cell:

2,463,782 = **Permitted Design Capacity of Unlined Cell (Closed)**
0 = **Volume Remaining**
100% = **Percentage of Unlined Landfill Used**

Lined Cell:

6,066,887 = **Permitted Design Capacity of Lined Cell**
2,558,405 = **Waste in Lined Cell**
3,508,482 = **Volume Remaining in Lined Cell**
42% = **Percentage of Lined Cell Used**

Notes:

Design Landfill Capacity = 8,530,669 cubic yards of waste per 2007 permit

Areial survey data indicates that as of June 1996 the landfill had received 1,781,100 cubic yards of waste To estimate the total received through December 1996, 1,847,908 cubic yards, it was assumed that *half* the waste received during 1996 was received *after the June survey*

The amount of waste received during 1994 and later is documented by scale house records.

Waste placement rates for the years prior to scale records was estimated by distrubiting the remaining volume, 1,270,563 cy, over the years 1953 through 1993 *assuming an annual increase of 885 tons per year.*

1200 lb/cy in place density 1952 through 1996

1400 lb/cy in place density thereafter

10/23/2012

Landfill Scale Report

For 1/1/2012 To 6/30/2012 Run: 8/6/2012 5:05:56 PM

	Total		Cash Customers			Other Waste Types			Recycled Materials					Ash	
	Waste Received	Total Loads	Cash Waste Rec	Cash Loads	Non Process In	C D	Clean Fill	Green Waste	Tires	Mulch	Compost	Carpet Pad	Metals	Metal from Ash	Waste Landfilled
Jan 2012	8,985.45	6,740	2,411.65	4,904	16.09	1,657.10	114.66	684.20	0 00	42.50	5 50	4 78	31 89	276 12	8,280.67
Feb 2012	7,992.12	6,665	2,280.05	4,945	14 64	1,862.18	179.24	605.30	0.17	40.25	43.50	7.30	29.40	325.84	7,364 59
Mar 2012	9,801.27	12,665	3,734.80	10,894	21 75	2,287 39	193 59	1,273.07	0.00	752.85	535.50	6.61	59 07	415 09	8,484.28
Apr 2012	16,767.80	16,043	4,365.04	13,077	12.43	2,124.71	163 42	2,070.73	1.78	1,927.75	1,382.25	7.28	106 49	211 17	14,593.75
May 2012	22,976.26	17,839	4,930.49	14,165	72.55	2,638 35	437 05	2,417 16	5.78	2,705 00	2,078.25	7.29	107 23	229.04	20,511 35
Jun 2012	13,423.21	15,384	4,501.37	12,866	39.20	2,295.81	462 31	1,738.57	0.66	1,653.25	912.50	7.82	93.32	232.89	11,622.04
Totals	79,945.91	75,536	22,223.42	60,851	176.66	13,065.53	1,550.26	8,789.03	8.39	7,121.60	4,957.50	41.08	427.40	1,690.15	70,856.68
District:	137,078.62	84,863	22,378.23	61,263					89 49						

Ash Landfilled	14,529.79
Total Tons Recycled	11,104.47
Household Haz Waste	1.00
Refrigerators	255
Batteries	911
E-Waste	148.42

Plant Scale Report

For 1/1/2012 To 6/30/2012 Run: 8/6/2012 5:05:56 PM

	Total		Cash Customers			Recycled Materials			Ash		
	Waste Received	Total Loads	Cash Waste Received	Cash Loads	Non Process	Tires	Carpet Pad	Metals	Ash	Ash Loads	Waste To Inventory
January 2012	9,600.01	1,653	25.28	77	16.09	4.19	0.00	0 00	2,452.66	174	9,583.92
February 2012	9,025.45	1,590	33 78	78	14.64	16 61	0.00	0.00	2,612.98	188	9,010.81
March 2012	11,880.08	1,993	15.94	68	21.75	11.29	0.00	0.00	3,018.01	219	11,858.33
April 2012	7,889.60	1,288	23.80	58	12.43	11.88	0.00	0.00	3,502.44	168	7,877.17
May 2012	6,452.41	920	17.56	30	72.55	17.72	0.00	21.51	1,166.20	74	6,358.35
June 2012	12,285.15	1,883	38.44	101	39.20	19.41	0.00	10.84	3,467.65	240	12,235.11
Totals:	57,132.70	9,327	154.82	412	176.66	81.10	0.00	32.35	16,219.94	1,063	56,923.69
District:	137,078.62	84,863	22,378.23	61,263		89.49					

Ranges:

Asset ID:	First to Last	Cost Basis:	First to Last
Description:	First to Last	Accum Depr:	First to Last
Asset Type:	First to Last	Net Book:	First to Last
Structure ID:	First to Last	Amort Code:	First to Last
Class ID:	BUILDINGS to BUILDINGS	Pl in Svc Date:	First to Last
Location ID:	PLANT to PLANT	Acquire Date:	First to Last
Property Type:	First to Last		
Quantity:	First to Last		

Sorted By: Asset ID

Description	Asset ID	Location ID	Qty	Cost Basis	Accum Depr	Net Book
PLANT OFFICE BUILDING	00010-1	PLANT	1	$132,564.97	$106,058.04	$26,506.93
PLANT MANAGERS OFFICE	00011-1	PLANT	1	$15,903.10	$15,903.10	$0.00
PLANT BUILDING	00012-1	PLANT	1	$12,420,334.89	$9,825,683.09	$2,594,651.80
PLANT CONTROL ROOM REMODEL	00012-2	PLANT	1	$11,528.00	$2,200.11	$9,327.89
PLANT MANAGER'S OFFICE REMODEL	00012-3	PLANT	1	$2,969.00	$211.33	$2,757.67
PLANT CONFERENCE ROOM REMODEL	00012-4	PLANT	1	$13,984.75	$867.58	$13,117.17
PLANT PURCHASING OFFICE IMPROVEM	00040-1	PLANT	1	$1,041.50	$1,041.50	$0.00
CITIZENS FACILITY	00118-1	PLANT	1	$570,003.61	$423,703.02	$146,300.59
STORAGE TRAILER AT PLANT	00137-1	PLANT	1	$3,100.00	$3,100.00	$0.00
CITIZENS FACILITY ASPHALT	00154-1	PLANT	1	$6,932.00	$4,783.11	$2,148.89
MAINT SHOP HEATER-DEMIN RM	00329-1	PLANT	1	$9,076.60	$9,076.60	$0.00
INERGEN/FIRE CONTROL SYS-CONTROL	00337-1	PLANT	1	$8,181.00	$8,181.00	$0.00
STORAGE BLDG - PLANT	00354-1	PLANT	1	$138,843.93	$91,142.29	$47,701.64
RECVG CLERK OFFICE REMODEL	00400-1	PLANT	1	$2,506.39	$2,506.39	$0.00
SAFETY OFFICER OFFICE REMODEL	00401-1	PLANT	1	$4,067.25	$4,067.25	$0.00
PLANT SCALEHOUSE	00445-1	PLANT	1	$187,346.95	$141,315.55	$46,031.40
PURCH. & RECV. NEW OFFICES	00476-1	PLANT	1	$11,170.37	$11,170.37	$0.00
NEW INVENTORY OFFICE	00525-1	PLANT	1	$7,156.47	$4,690.44	$2,466.03
CONTROL ROOM REMODEL	00554-1	PLANT	1	$4,188.55	$4,188.55	$0.00
HAZMAT FACILITY - PLANT	00560-1	PLANT	1	$47,619.73	$28,618.82	$19,000.91
FRONT OF PLANT SEWERLINE	00614-1	PLANT	1	$8,300.00	$4,680.34	$3,619.66
PLATFORM - BLOW DOWN VALVES	00615-1	PLANT	1	$9,305.46	$9,305.46	$0.00
FIRE CONTROL SYSTEM	00617-1	PLANT	1	$44,550.00	$44,550.00	$0.00
PLANT PATIO (DECK & AWNING)	00675-1	PLANT	1	$6,125.00	$3,298.58	$2,826.42
PURCHASING OFFICE - PLANT	00834-1	PLANT	1	$14,152.40	$6,485.39	$7,667.01
PLANT BUILDING LENNOX KCA A/C UN	01053-1	PLANT	1	$24,330.00	$932.62	$23,397.38
26 Assets			26	$13,705,281.92	$10,757,760.53	$2,947,521.39

Fixed Assets Inventory List

anges:

Asset ID:	First to Last		
Description:	First to Last		
Asset Type:	First to Last	Cost Basis:	First to Last
Structure ID:	First to Last	Accum Depr:	First to Last
Class ID:	WST/ENRGY EQUIP to WST/ENRGY EQUIP	Net Book:	First to Last
Location ID:	First to Last	Amort Code:	First to Last
Property Type:	First to Last	Pl in Svc Date:	First to Last
Quantity:	First to Last	Acquire Date:	First to Last

orted By: Asset Description

Description	Asset ID	Location ID	Qty	Cost Basis	Accum Depr	Net Book
ASH EXTRACTOR UPGRADE	00637-1	PLANT	1	$485,489.50	$376,214.47	$109,275.03
ASH GRAPPLE BUCKET	01076-1	PLANT	1	$68,985.00	$2,304.54	$66,680.46
BURNING EQUIPMENT	00015-1	PLANT	1	$12,420,334.89	$12,420,334.89	$0.00
CEMS ANALYZERS - ECHOCHEM ANALYT	00678-1	PLANT	1	$163,962.08	$112,016.81	$51,945.27
CLAM SHELL ASH GRAPPLE	00024-1	PLANT	1	$63,902.19	$63,902.19	$0.00
CRANE SCALE REBUILD	00406-1	PLANT	1	$27,210.15	$27,210.15	$0.00
DURAG 290 OPACITY MONITORS A & B	00848-1	PLANT	1	$33,730.00	$19,279.94	$14,450.06
FEEDGRATE SYSTEM UPGRADE	00473-1	PLANT	1	$504,437.99	$341,511.48	$162,926.51
FIELD VIEW SYSTEM-SOFTWARE	00194-1	PLANT	1	$7,303.68	$7,303.68	$0.00
FURNACE CAMERAS	00248-1	PLANT	1	$28,450.00	$28,450.00	$0.00
GEN BANK WET DRAG CONVEYOR	01079-1	PLANT	1	$86,405.00	$2,405.62	$83,999.38
GSA SYSTEM (PLANT EMISSIONS SCRU	00486-1	PLANT	1	$6,905,653.31	$4,525,230.22	$2,380,423.09
HOIST CRANE - ATTACHED REFUSE CR	00407-1	PLANT	1	$3,460.98	$3,460.98	$0.00
LIFT STATION 7 IMPROVEMENTS	00018-1	PLANT	1	$19,060.10	$19,060.10	$0.00
LS-7 REPLACEMENT	00290-1	PLANT	1	$15,269.37	$15,269.37	$0.00
ORANGE PEEL CRANE GRAPPLE	00023-1	PLANT	1	$73,293.50	$73,293.50	$0.00
ORANGE PEEL CRANE GRAPPLE - SN#	00391-1	PLANT	1	$49,466.00	$49,466.00	$0.00
PATRN MOLD-SLIDER CARRIAGE ROLLE	00491-1	PLANT	1	$1,137.00	$1,137.00	$0.00
PATRN MOLDS LOWER FDGRATE TILE 8	00299-1	PLANT	1	$2,848.56	$2,848.56	$0.00
PATRN MOLDS UPPER FDGRATE TILE 8	00300-1	PLANT	1	$2,848.56	$2,848.56	$0.00
PATTERN MOLD - TUMBLER GRATE	00047-1	PLANT	1	$15,320.00	$7,911.69	$7,408.31
PATTERN MOLD 8027 1ST ROW CARRIA	00256-1	PLANT	1	$1,500.00	$1,500.00	$0.00
PATTERN MOLDS FOR GRATES	00540-1	PLANT	1	$3,950.00	$3,950.00	$0.00
PLANT ASH BASIN	00027-1	PLANT	1	$41,844.84	$41,844.84	$0.00
PLANT POLLUTION EQUIPMENT	00013-1	PLANT	1	$12,420,334.89	$12,420,334.89	$0.00
PLANT STACK ANALYZIER	00014-1	PLANT	1	$48,282.32	$48,282.32	$0.00
PRECIPITATOR CONTROL UPGRADE	00313-1	PLANT	1	$62,660.31	$62,660.31	$0.00
PRIMARY AIR FANS	00360-1	PLANT	1	$51,783.25	$51,783.25	$0.00
RAW WATER PUMP UPGRADE	00294-1	PLANT	1	$25,539.12	$25,539.12	$0.00
ROTARY SEAL FEEDER (AIR LOCKS)	00394-1	PLANT	1	$4,578.00	$4,578.00	$0 00
SHAKER TABLE REBUILD - 2006 SHUT	00754-1	PLANT	1	$110,028.99	$94,322.86	$15,706.13
SHAKER TABLES	00338-1	PLANT	1	$19,736.31	$19,736.31	$0.00
SMART TRANSMITTERS	00195-1	PLANT	1	$4,856.00	$4,856.00	$0.00
STEAM STOP VALVES	00260-1	PLANT	1	$4,450.00	$4,450.00	$0.00
TURBINE CENTRIFUGE	00168-1	PLANT	1	$9,439.80	$1,730.89	$7,708.91
UNDERFIRE CONVEYOR A & B	00005-1	PLANT	1	$775,770.25	$290,980.22	$484,790.03
UTAH POWER AND LIGHT HOOKUP	00025-1	PLANT	1	$144,611.38	$144,611.38	$0.00
VI-CLR PRECIPITATORS PLT UPGRADE	00463-1	PLANT	1	$33,694.13	$33,694.13	$0.00
38 Assets			38	$34,741,627.45	$31,356,314.27	$3,385,313.18

Account: 00-830-11000-0005 Cash Equivalents - Landfill Closure Escrow Account
Currency:

Period	Debit	Credit	Net Change	Period Balance
Beginning Balance	$4,682,286.58		$4,682,286.58	$4,682,286.58
July	$460,005.40		$460,005.40	$5,142,291.98
August	$2,435.85		$2,435.85	$5,144,727.83
September	$2,520.66		$2,520.66	$5,147,248.49
October	$2,769.84		$2,769.84	$5,150,018.33
November	$2,873.93		$2,873.93	$5,152,892.26
December	$3,146.85		$3,146.85	$5,156,039.11
January	$3,282.44		$3,282.44	$5,159,321.55
February	$3,258.67		$3,258.67	$5,162,580.22
March	$3,480.29		$3,480.29	$5,166,060.51
April	$3,371.71		$3,371 71	$5,169,432.22
May	$3,475.88		$3,475.88	$5,172,908.10
June	$3,356.28		$3,356.28	$5,176,264.38
Totals:	$5,176,264.38	$0.00	$5,176,264.38	$5,176,264.38

SW101

WASATCH

INTEGRATED

waste management district

Ash Residue Characterization Report 2012

WASATCH
waste management district

February 27, 2013

Scott Anderson, Director
Utah Division of Solid and Hazardous Waste
288 North 1460 West
Salt Lake City, Utah 84114-4880
Attention: Roy Van Os

Re: Residue Characterization 2012, Davis Energy Recovery Facility

Dear Mr. Anderson:

Wasatch Integrated Waste Management District (Wasatch) owns and operates a municipal solid waste incinerator located in Davis County, Utah. The Davis Energy Recovery Facility operates under Solid Waste Permit Number 9423R1 issued on January 31, 2008 (renewal date January 31, 2018). Under this permit Wasatch is required to characterize ash residue from the energy recovery facility quarterly, to determine the appropriate disposal criteria under RCRA.

This letter reports the results of the quarterly residue sampling for the calendar year 2012. In addition to the sampling events, this letter also includes summaries of sample reduction, laboratory analysis, and data quality assurance.

Sample Collection

Composite residue samples were collected and handled in accordance with the Combined Ash Residue Characterization and Quality Assurance Plan (Plan) (Rigo, 2000).

Due to safety concerns, the combined ash residue samples were taken directly from the bed of the transport vehicle as they left the ash load out area, rather than sampling directly from the ash crane as stated in the Plan. Residue was sampled once per hour. The transport vehicle was stopped and a shovel full of residue was removed from the bed of the truck and placed in a 5-gallon pail and covered. The number of hours that the transport vehicle removes ash determines the number of hours that will make up the two sampling periods for each day.

Two sampling periods per day and seven consecutive hauling days were sampled totaling fourteen samples during each of the quarterly sampling events. The four sampling events began in May, June, July, and October.

Typically samples are collected and analyzed for each quarter during the year, however samples collected during the 1st quarter of 2012 (February) were inadvertently contaminated prior to sample reduction and mixing and were, therefore, not analyzed. Following is a brief description of the

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series of events leading to the sample contamination and subsequent identification of the contamination problem.

Representative combined ash samples for the first quarter of 2012 were collected and prepared in accordance with the Plan. Upon receipt at the laboratory, the samples were tested to determine which Extraction Fluid would be required by the test method. The laboratory reported that 12 of the 15 samples had been determined to require Extraction Fluid No. 2. As stated in the Plan, and based upon 15 years of sampling history, it is expected that no more than one or two samples should require Extraction Fluid No. 2 in any one quarter. The drastic change in the character of the first quarter ash samples was immediately investigated by the facility to determine the cause of this change as described in the Initial Quality Control Data Screening section of the Plan.

Results of the investigation found that the samples had been contaminated by airborne dust during a maintenance episode at the energy recovery facility. After rough samples are collected, they often contain excess moisture which prevents sample reduction and proper mixing prior to collection of the laboratory sample. In this instance, the lids were removed from the sample buckets to allow the samples to dry sufficiently so they could be screened and reduced as required by the Plan. During this time period, maintenance was performed on refractory within the incinerators which resulted in a heavy coating of dust, within the entire facility, from the sprayed-on refractory mix. At one point during the maintenance, the facility was actually evacuated due to the heavy airborne particulate. The spray-on refractory mix included a large proportion of hydrated lime which explains the unusually high pH observed in the reduced samples. First quarter samples were not analyzed due to the identified contamination problem and an additional set of samples was collected to ensure facility compliance with sampling requirements. All other samples analyzed during 2012 required Extraction Fluid No. 1.

Tables 1 through 4 summarize sample identification used during the four quarterly events (Note: first two sampling events are from samples taken during the 2nd Quarter and are identified as AS-2 and AS-2A).

Table 1

Sample Identification – 2nd Quarter 2012 Residue Characterization			
Sample ID	**Sample Date**	**Sample Time**	**Description**
AS-12-02-01	5/29/12	a.m.	4-hour Composite
AS-12-02-02	5/29/12	a.m./p.m.	4-hour Composite
AS-12-02-03	5/30/12	a.m.	4-hour Composite
AS-12-02-04	5/30/12	a.m./p.m.	4-hour Composite
AS-12-02-05	5/31/12	a.m.	4-hour Composite
AS-12-02-06	5/31/12	a.m./p.m.	3-hour Composite
AS-12-02-07	6/1/12	a.m.	4-hour Composite
AS-12-02-08	6/1/12	a.m./p.m.	4-hour Composite
AS-12-02-09	6/4/12	a.m.	4-hour Composite
AS-12-02-10	6/4/12	a.m./p.m.	4-hour Composite
AS-12-02-11	6/5/12	a.m.	4-hour Composite
AS-12-02-12	6/5/12	a.m./p.m.	4-hour Composite
AS-12-02-13	6/6/12	a.m.	4-hour Composite
AS-12-02-14	6/6/12	a.m./p.m.	4-hour Composite

Table 2

Sample Identification – 2nd Quarter (A) 2012 Residue Characterization			
Sample ID	**Sample Date**	**Sample Time**	**Description**
AS-12-02A-01	6/18/12	a.m.	4-hour Composite
AS-12-02A-02	6/18/12	a.m./p.m.	4-hour Composite
AS-12-02A-03	6/19/12	a.m.	4-hour Composite
AS-12-02A-04	6/19/12	a.m./p.m.	4-hour Composite
AS-12-02A-05	6/20/12	a.m.	4-hour Composite
AS-12-02A-06	6/20/12	a.m./p.m.	4-hour Composite
AS-12-02A-07	6/21/12	a.m.	4-hour Composite
AS-12-02A-08	6/21/12	a.m./p.m.	4-hour Composite
AS-12-02A-09	6/22/12	a.m.	4-hour Composite
AS-12-02A-10	6/22/12	a.m./p.m.	4-hour Composite
AS-12-02A-11	6/25/12	a.m.	4-hour Composite
AS-12-02A-12	6/25/12	p.m.	4-hour Composite
AS-12-02A-13	6/26/12	a.m.	4-hour Composite
AS-12-02A-14	6/26/12	p.m.	4-hour Composite

Table 3

Sample Identification – 3rd Quarter 2012 Residue Characterization			
Sample ID	**Sample Date**	**Sample Time**	**Description**
AS-12-03-01	7/25/12	a.m.	4-hour Composite
AS-12-03-02	7/25/12	a.m./p.m.	4-hour Composite
AS-12-03-03	7/26/12	a.m.	4-hour Composite
AS-12-03-04	7/26/12	a.m./p.m.	4-hour Composite
AS-12-03-05	7/27/12	a.m.	4-hour Composite
AS-12-03-06	7/27/12	a.m./p.m.	4-hour Composite
AS-12-03-07	7/30/12	a.m.	4-hour Composite
AS-12-03-08	7/30/12	a.m./p.m.	4-hour Composite
AS-12-03-09	7/31/12	a.m.	4-hour Composite
AS-12-03-10	7/31/12	a.m./p.m.	4-hour Composite
AS-12-03-11	8/1/12	a.m.	4-hour Composite
AS-12-03-12	8/1/12	a.m./p.m.	4-hour Composite
AS-12-03-13	8/2/12	a.m.	4-hour Composite
AS-12-03-14	8/2/12	a.m./p.m.	4-hour Composite

Table 4

Sample Identification – 4th Quarter 2011 Residue Characterization			
Sample ID	**Sample Date**	**Sample Time**	**Description**
AS-12-04-01	10/1/12	a.m.	4-hour Composite
AS-12-04-02	10/1/12	a.m./p.m.	4-hour Composite
AS-12-04-03	10/2/12	a.m.	4-hour Composite
AS-12-04-04	10/2/12	a.m./p.m.	4-hour Composite
AS-12-04-05	10/3/12	a.m.	4-hour Composite
AS-12-04-06	10/3/12	a.m./p.m.	4-hour Composite
AS-12-04-07	10/4/12	a.m.	4-hour Composite
AS-12-04-08	10/4/12	a.m./p.m.	4-hour Composite
AS-12-04-09	10/5/12	a.m.	4-hour Composite
AS-12-04-10	10/5/12	a.m./p.m.	4-hour Composite
AS-12-04-11	10/8/12	a.m.	4-hour Composite
AS-12-04-12	10/8/12	a.m./p.m.	4-hour Composite
AS-12-04-13	10/9/12	a.m.	4-hour Composite
AS-12-04-14	10/9/12	a.m./p.m.	4-hour Composite

Sample Reduction, Preparation and Analysis

Once a sample was collected it was stored in a closed bucket until it was prepared for shipment to the analytical laboratory. Samples were prepared according to the procedures listed in the Plan. They are as follows:

- Sample is weighed and results recorded.
- Sample is screened at No. 9 sieve (⅜ inch).
- Reducible oversized material is crushed to minus ⅜ inch jaw crusher and recombined with fines.
- Irreducible oversize fraction is weighed, photographed and discarded.
- Minus ⅜ inch material is mixed for a minimum of 15 minutes in a rotary cement mixer.
- Sub-samples for extraction and analysis are collected from the rotary mixer using a 1½ inch diameter sample thief and placed in clean 16 oz borosilicate jars with Teflon lids.
- Laboratory sub-samples are delivered to the analytic laboratory under chain of custody.

Of the fourteen samples obtained a duplicate sub-sample of the minus ⅜ fraction was selected using a random number generator. This duplicate sample was labeled AS-X-X-15 in each of the four sampling events.

All samples were delivered under chain of custody to American West Analytical Laboratories (AWAL), a State of Utah Certified Laboratory, for analysis. All samples were extracted in strict

accordance with EPA Method 1311, Toxic Characteristic Leaching Procedure (TCLP) and analyzed using EPA Methods 6010B and 7470A (mercury).

The irreducible fraction was discarded and not included in the sample for laboratory analysis. Photos of the irreducible fraction are kept on file. The omission of this fraction will, on average, bias the results high. This is based on previous laboratory analysis and the relatively large particle size and generally inert nature of the irreducible fraction.

Tables 5 through 8 summarize the weight of the total sample, the weight of the irreducible fraction and analysis requested.

Table 5

Sample Identification – 1st Run of 2nd Quarter 2012 Residue Characterization						
Sample ID	Total Sample (lb)	Irreducible Fraction		-⅜ inch Sample (lb)	Laboratory Sub-sample (oz)	Analysis Requested
		(lb)	(%)			
AS-12-02-01	13	1	8	12	16	TCLP Lead and Cadmium
AS-12-02-02	11	2	18	9	16	TCLP Lead and Cadmium TCLP 8 RCRA Metals & ZHE Organics
AS-12-02-03	10	1	10	9	16	TCLP Lead and Cadmium
AS-12-02-04	13	1	8	12	16	TCLP Lead and Cadmium
AS-12-02-05	15	.5	3	14.5	16	TCLP Lead and Cadmium
AS-12-02-06	12	1	8	11	16	TCLP Lead and Cadmium
AS-12-02-07	14	1	7	13	16	TCLP Lead and Cadmium
AS-12-02-08	15	2	13	13	16	TCLP Lead and Cadmium
AS-12-02-09	12	1	8	11	16	TCLP Lead and Cadmium
AS-12-02-10	11	2	18	9	16	TCLP Lead and Cadmium
AS-12-02-11	8	1	12	7	16	TCLP Lead and Cadmium TCLP 8 RCRA Metals
AS-12-02-12	10	1	10	9	16	TCLP Lead and Cadmium
AS-12-02-13	10	3	30	7	16	TCLP Lead and Cadmium
AS-12-02-14	11	1	9	10	16	TCLP Lead and Cadmium

Table 6

Sample Identification – 2nd Run of 2nd Quarter 2012 Residue Characterization						
Sample ID	Total Sample (lb)	Irreducible Fraction (lb)	Irreducible Fraction (%)	-⅜ inch Sample (lb)	Laboratory Sub-sample (oz)	Analysis Requested
AS-12-02A-01	38	1	3	37	16	TCLP Lead and Cadmium
AS-12-02A-02	33	1	3	32	16	TCLP Lead and Cadmium
AS-12-02A-03	35	1	3	34	16	TCLP Lead and Cadmium
AS-12-02A-04	44	.5	1	43.5	16	TCLP Lead and Cadmium
AS-12-02A-05	33	2	6	31	16	TCLP Lead and Cadmium & TCLP 8 RCRA Metals
AS-12-02A-06	33	2	6	31	16	TCLP Lead and Cadmium
AS-12-02A-07	35	13	37	22	16	TCLP Lead and Cadmium
AS-12-02A-08	28	5	2	23	16	TCLP Lead and Cadmium
AS-12-02A-09	31	1	3	30	16	TCLP Lead and Cadmium
AS-12-02A-10	34	2	6	32	16	TCLP Lead and Cadmium
AS-12-02A-11	42	5	12	37	16	TCLP Lead and Cadmium
AS-12-02A-12	39	8	21	31	16	TCLP Lead and Cadmium
AS-12-02A-13	34	6	18	28	16	TCLP Lead and Cadmium
AS-12-02A-14	34	5	18	29	16	TCLP Lead and Cadmium & TCLP 8 RCRA Metals

Table 7

Sample Identification – 3rd Quarter 2012 Residue Characterization						
Sample ID	Total Sample (lb)	Irreducible Fraction (lb)	Irreducible Fraction (%)	-⅜ inch Sample (lb)	Laboratory Sub-sample (oz)	Analysis Requested
AS-12-03-01	34	8	24	26	16	TCLP Lead and Cadmium
AS-12-03-02	30	4	13	26	16	TCLP Lead and Cadmium
AS-12-03-03	26	3	16	23	16	TCLP Lead and Cadmium & TCLP 8 RCRA Metals
AS-12-03-04	30	3	23	27	16	TCLP Lead and Cadmium
AS-12-03-05	34	7	21	27	16	TCLP Lead and Cadmium
AS-12-03-06	34	7	21	27	16	TCLP Lead and Cadmium
AS-12-03-07	29	5	17	24	16	TCLP Lead and Cadmium
AS-12-03-08	28	4	14	24	16	TCLP Lead and Cadmium
AS-12-03-09	29	7	24	22	16	TCLP Lead and Cadmium
AS-12-03-10	35	7	20	28	16	TCLP Lead and Cadmium & TCLP 8 RCRA Metals
AS-12-03-11	35	5	14	30	16	TCLP Lead and Cadmium
AS-12-03-12	29	8	28	21	16	TCLP Lead and Cadmium
AS-12-03-13	35	9	26	26	16	TCLP Lead and Cadmium
AS-12-03-14	41	6	15	35	16	TCLP Lead and Cadmium

Table 8

Sample Identification – 4th Quarter 2012 Residue Characterization						
Sample ID	Total Sample (lb)	Irreducible Fraction (lb)	Irreducible Fraction (%)	-⅜ inch Sample (lb)	Laboratory Sub-sample (oz)	Analysis Requested
AS-12-04-01	29	8	28	21	16	TCLP Lead and Cadmium
AS-12-04-02	36	10	28	26	16	TCLP Lead and Cadmium
AS-12-04-03	25	7	28	18	16	TCLP Lead and Cadmium
AS-12-04-04	29	8	28	21	16	TCLP Lead and Cadmium
AS-12-04-05	31	6	19	25	16	TCLP Lead and Cadmium
AS-12-04-06	32	8	25	24	16	TCLP Lead and Cadmium
AS-12-04-07	34	6	18	28	16	TCLP Lead and Cadmium & TCLP 8 RCRA Metals
AS-12-04-08	27	7	26	20	16	TCLP Lead and Cadmium
AS-12-04-09	24	8	33	16	16	TCLP Lead and Cadmium
AS-12-04-10	35	8	23	27	16	TCLP Lead and Cadmium
AS-12-04-11	34	6	18	28	16	TCLP Lead and Cadmium
AS-12-04-12	30	7	23	23	16	TCLP Lead and Cadmium
AS-12-04-13	38	6	16	32	16	TCLP Lead and Cadmium & TCLP 8 RCRA Metals
AS-12-04-14	31	6	19	25	16	TCLP Lead and Cadmium

Data Validation

The analytical data generated during the 2011 residue characterization has been reviewed and evaluated for completeness, quality, accuracy, and precision according to EPA data validation general guidelines and requirements. Based on this review the data can be reliably used to determine the regulatory status of the residue. Chemical analysis reports for all samples are provided in Attachment 1.

Some of the data has been flagged with qualifiers, which typically designate the value as an estimate or reject the data. The following qualifiers may have been used in this review:

UJ - The analyte was not detected above the reported sample quantization limit. However, the reported quantization limit is approximate and may or may not represent the actual limit of quantization necessary to accurately and precisely measure the analyte in the sample.

J - The analyte was positively identified; the associated value is the approximate concentration of the analyte in the sample.

R - The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.

JFD - The reported value is qualified because the associated field duplicate sample analysis control limits were exceeded.

Extraction Fluid

It is important to know which extraction fluid was used in the laboratory analysis. Most ash samples require Extraction Fluid #1. The requirement to use Extraction Fluid #2 may indicate a change in the chemical characteristics of the ash and should be noted. Extraction fluid

determinations are provided in Attachment II.

Holding Times

Holding Times - To ascertain the validity of the results, the holding times (time of collection to time of analysis) was reviewed. All samples analyzed were within the applicable hold time.

Completeness

Four sets of 15 samples, for a total of 60 samples, were sent to the laboratory for analysis during 2012 as indicated on the complete chain of custody forms (Attachment III). Laboratory sample set identification numbers of 1207205, 1209297, 1210097 and 1212454 were assigned to the 1st set of 2nd, 2nd set of 2nd, 3rd and 4th quarter sample sets respectively. Analytical reports on all 60 samples were 100 percent complete for all requested analysis.

Methods and Detection Limits

All samples were extracted using EPA method 1311 and analyzed using EPA methods 6010B and 7470A as requested. All reported detection limits are sufficient to meet data objectives.

Initial Calibration

The ICP-AES must be calibrated at least daily and more frequent calibration may be required. Minimum requirements consist of analysis of a blank and a calibration standard. The calibration must be checked by immediate analysis of at least two exposures of the calibration verification standard. The Results must lie within 10 percent of the true value and the percent RSD of the exposures must be less than three percent. All initial calibration criteria were met.

Blanks

The analysis of blanks is used as an indication of contamination in the sample. Sample preparation blanks must be prepared at a rate of one for every 20 samples. All blank results met method requirements for the project data set.

Matrix Spike Analysis of Extract

The matrix spike sample analysis provides information about the effect of the sample matrix on the digestion and measurement methodology. Matrix spikes are required at a rate of one for every 20 samples processed and are required to exhibit recoveries of a certain percentage. All matrix spike analysis and results met method requirements for the project data set.

Duplicate Sample Analysis of Extract

Duplicate analyses are indicators of laboratory precision based on each sample matrix. Some parameters use a duplicate analysis rather than a matrix spike analysis. All duplicate analysis results and associated relative percent differences (RPDs) were below 20%.

Field Duplicate Analysis

Field duplicate analysis provides a means to monitor the performance of the laboratory's precision and the consistency of field sampling techniques. Precision is a measure of the reproducibility of the data. The most commonly used measure is the RPD. This is calculated as the difference between the two measurements divided by the average of the two measurements as:

$$RPD = \frac{2(S - D)}{S + D} \times 100$$

Where:

S = Sample Result
D = Duplicate Result

The acceptance criteria for sample values greater than 5 times the laboratory detection limit (LDL) is a control limit of +/- 20% for the RPD. If the sample values are less than 5 times the LDL, a control limit of +/- the LDL shall be used. If field duplicate analysis results for a particular analyte fall outside the control windows of +/- 20% or +/- LDL, whichever is appropriate, the results for that analyte in all other samples associated with that laboratory set should be flagged as estimated

It should be noted that field QA/QC samples should not be the basis of accepting or rejecting data, but rather as additional evidence to support the conclusions arrived at by a review of the total data package. Actions taken as a result of duplicate sample analysis must be weighed carefully since it may be difficult to determine if poor precision is a result of sample non-homogeneity, method defects, or laboratory technique. In general, the results of duplicate analysis should be used to support conclusions drawn about the quality of the data rather than as a basis for these conclusions.

Table 9

Field Duplicate Results								
Sample ID	**Arsenic**	**Barium**	**Cadmium**	**Chromium**	**Lead**	**Mercury**	**Selenium**	**Silver**
1st Set of 2nd Quarter 2012								
AS-12-02-02	<0.010	0.520	0.101	<0.010	<0.050	<0.010	<0.010	<0.010
AS-12-02-15	<0.010	0.482	0.068	<0.010	<0.050	<0.010	<0.010	<0.010
RPD (%)		7.58	39.05					
2nd Set of 2nd Quarter 2012								
AS-12-2A-13	<0.010	0.515	0.563	<0.010	0.976	<0.010	<0.010	<0.010
AS-12-2A-15	<0.010	0.341	0.647	<0.010	0.219	<0.010	<0.010	<0.010
RPD (%)		40.65	13.88		126.69			
3rd Quarter 2012								
AS-12-3-03	<0.010	0.437	0.102	0.025	0.103	<0.010	<0.010	<0.010
AS-12-3-15	<0.010	0.386	0.069	<0.010	0.059	<0.010	<0.010	<0.010
RPD (%)		12.39	38.60	85.71	54.32			
4th Quarter 2012								
AS-12-4-13	<0.010	0.376	0.555	<0.010	0.174	<0.010	<0.010	<0.010
AS-12-4-15	<0.010	0.428	0.583	<0.010	0.271	<0.010	<0.010	<0.010
RPD (%)		12.93	4.92		43.60			

Qualifiers used as a result of the Field duplicate analysis are listed in Table 10, copies of the reports are provided in Attachment IV.

Table 10

Summary of Field Duplicate Qualifiers		
Event	**Constituent**	**Action/Comment**

Laboratory Control Sample

Laboratory control samples (LCS) demonstrate on a daily basis the ability of the laboratory to analyze samples with good qualitative and quantitative accuracy. LCS are analyzed at a rate of one per 20 samples. Recovery limits for analytes in the LCS are 75-125%. All laboratory control sample results were within acceptable limits, copies of the reports are provided in Attachment V.

Results

Laboratory analytical results of the combined residue samples by method 1311 are included in Attachment I. Tables 12 through 15 provide a summary of the analytical results and a comparison to regulatory thresholds for determination of regulatory status.

Table 11

Summary of 1st Set of 2nd Quarter 2012 Residue Characterization								
	Arsenic	**Barium**	**Cadmium**	**Chromium**	**Lead**	**Mercury**	**Selenium**	**Silver**
Concentration For Toxicity Characteristic	5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0
Sample ID								
AS-12-02-01			0.060		<0.05			
AS-12-02-02	<0.010	0.520	0.101	<0.010	<0.05	<0.010	<0.010	<0.010
AS-12-02-03			0.096		<0.05			
AS-12-02-04			0.007		<0.05			
AS-12-02-05			0.044		<0.05			
AS-12-02-06			0.014		<0.05			
AS-12-02-07			0.035		<0.05			
AS-12-02-08			0.021		<0.05			
AS-12-02-09			0.194		0.058			
AS-12-02-10			0.068		<0.05			
AS-12-02-11	<0.010	0.445	0.357	<0.010	0.078	<0.010	<0.010	<0.010
AS-12-02-12			0.427		0.094			
AS-12-02-13			0.410		0.497			
AS-12-02-14			0.337		0.140			

Table 12

Summary of 2nd Set of 2nd Quarter 2012 Residue Characterization								
	Arsenic	**Barium**	**Cadmium**	**Chromium**	**Lead**	**Mercury**	**Selenium**	**Silver**
Concentration For Toxicity Characteristic	5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0
Sample ID	**TCLP Results**							
AS-12-2A-01			0.018		<0.05			
AS-12-2A-02			0.329		0.265			
AS-12-2A-03			0.014		<0.05			
AS-12-2A-04			0.044		<0.05			
AS-12-2A-05	<0.010	0.250	0.055	<0.010	<0.05	<0.010	<0.010	<0.010
AS-12-2A-06			0.475		0.059			
AS-12-2A-07			0.096		<0.05			
AS-12-2A-08			0.078		<0.05			
AS-12-2A-09			0.278		0.079			
AS-12-2A-10			0.343		0.227			
AS-12-2A-11			0.562		0.153			
AS-12-2A-12			0.614		0.187			
AS-12-2A-13	<0.010	0.515	0.563	<0.010	0.976	<0.010	<0.010	<0.010
AS-12-2A-14			0.699		0.139			

Table 13

Summary of 3rd Quarter 2012 Residue Characterization								
	Arsenic	**Barium**	**Cadmium**	**Chromium**	**Lead**	**Mercury**	**Selenium**	**Silver**
Concentration For Toxicity Characteristic	5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0
Sample ID	**TCLP Results**							
AS-12-3-01			0.059		<0.050			
AS-12-3-02			0.021		<0.050			
AS-12-3-03	<0.010	0.437	0.102	0.025	0.103	<0.010	<0.010	<0.010
AS-12-3-04			0.124		0.050			
AS-12-3-05			0.050		<0.050			
AS-12-3-06			0.032		<0.050			
AS-12-3-07			0.028		<0.050			
AS-12-3-08			0.035		<0.050			
AS-12-3-09			0.358		0.186			
AS-12-3-10	<0.010	0.434	0.080	<0.010	0.118	<0.010	<0.010	<0.010
AS-12-3-11			0.076		<0.050			
AS-12-3-12			0.072		<0.050			
AS-12-3-13			0.046		<0.050			
AS-12-3-14			0.043		0.131			

Table 14

Summary of 4th Quarter 2012 Residue Characterization								
	Arsenic	**Barium**	**Cadmium**	**Chromium**	**Lead**	**Mercury**	**Selenium**	**Silver**
Concentration For Toxicity Characteristic	5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0
Sample ID	**TCLP Results**							
AS-12-4-01			0.335		<0.050			
AS-12-4-02			0.536		0.251			
AS-12-4-03			0.515		0.409			
AS-12-4-04			0.438		0.101			
AS-12-4-05			0.404		0.087			
AS-12-4-06			0.469		0.177			
AS-12-4-07	<0.010	0.436	0.496	<0.010	0.225	<0.010	<0.010	<0.010
AS-12-4-08			0.646		0.137			
AS-12-4-09			0.195		0.050			
AS-12-4-10			0.262		0.212			
AS-12-4-11			0.619		1.620			
AS-12-4-12			0.545		0.88			
AS-12-4-13	<0.010	0.376	0.555	<0.010	0.174	<0.010	<0.010	<0.010
AS-12-4-14			0.941		0.071			

ZHE Organics

One sample each year is subjected to zero headspace extraction (ZHE) and analyzed for the complete list of RCRA organics. Wasatch Integrated used a random number generator to identify which sample to subject to this analysis; AS-12-02-02 was analyzed for ZHE organics. There were no organics found in the samples. The results of this test can be viewed within the laboratory analytical results provided in Attachment I.

Conclusions

The analytical results presented in this 2012 report are representative of the ash residue that is being discharged from the energy recovery facility and are of sufficient quality for the determination of the regulatory status of the combined residue under RCRA.

The results show that the combined residue from Wasatch Integrated Waste Management District Energy Recovery Facility to be RCRA non-hazardous.

Please do not hesitate to contact us if you have any questions regarding these submissions.

Sincerely,

Wasatch Integrated Waste Management District

Nathan Rich, P.E.
Executive Director

John Watson
Plant Manager

LIST OF TABLES AND ATTACHMENTS

LIST OF TABLES

LIST OF ATTACHMENTS

ATTACHMENT I

LABORATORY ANALYTICAL REPORTS

1st QUARTER EVENT

INORGANIC ANALYTICAL REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
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Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail awal@awal-labs com

Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr 12 Ash Samples		
Lab Sample ID	1207205-001		
Client Sample ID	AS-12-02-01		
Collection Date	6/19/2012 1100h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/15/2012 1630h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/16/2012 1210h	7/17/2012 1321h	SW6020A	0 00250	**0 0603**	
Lead	mg/L	7/16/2012 1210h	7/17/2012 1321h	SW6020A	0 0500	< 0 0500	*

** - The reporting limits were raised due to sample matrix interferences*

Report Date 7/30/2012 Page 2 of 28

INORGANIC ANALYTICAL REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

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Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr 12 Ash Samples		
Lab Sample ID	1207205-002		
Client Sample ID	AS-12-02-02		
Collection Date	6/19/2012 921h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/15/2012 1630h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	7/16/2012 1210h	7/18/2012 204h	SW6020A	0 0500	**0 520**	
Cadmium	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 00250	**0 101**	
Chromium	mg/L	7/16/2012 1210h	7/18/2012 1235h	SW6010C	0 0100	< 0 0100	
Lead	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0500	< 0 0500	*
Mercury	mg/L	7/16/2012 1530h	7/17/2012 809h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0100	< 0 0100	*

** - The reporting limits were raised due to sample matrix interferences*

Report Date 7/30/2012 Page 3 of 28

INORGANIC ANALYTICAL REPORT

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Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr 12 Ash Samples		
Lab Sample ID	1207205-003		
Client Sample ID	AS-12-02-03		
Collection Date	7/11/2012 1214h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/20/2012 1600h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/23/2012 1225h	7/26/2012 2255h	SW6020A	0 00250	**0 0962**	
Lead	mg/L	7/23/2012 1225h	7/27/2012 1500h	SW6020A	0 0500	< 0 0500	*

** The reporting limits were raised due to sample matrix interferences*

Report Date 7/30/2012 Page 4 of 28

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Laboratory Director

Jose Rocha
QA Officer

Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr 12 Ash Samples		
Lab Sample ID	1207205-004		
Client Sample ID	AS-12-02-04		
Collection Date	6/19/2012 930h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/15/2012 1630h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/16/2012 1210h	7/17/2012 1407h	SW6020A	0 00250	**0 00662**	
Lead	mg/L	7/16/2012 1210h	7/17/2012 1407h	SW6020A	0 0500	< 0 0500	*

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Report Date 7/30/2012 Page 5 of 28

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-005		
Client Sample ID	AS-12-02-05		
Collection Date	7/11/2012 1236h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/20/2012 1600h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/23/2012 1225h	7/26/2012 2259h	SW6020A	0 00250	0 0444	
Lead	mg/L	7/23/2012 1225h	7/27/2012 1503h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-006		
Client Sample ID	AS-12-02-06		
Collection Date	6/19/2012 952h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/15/2012 1630h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/16/2012 1210h	7/17/2012 1411h	SW6020A	0 00250	0 0137	
Lead	mg/L	7/16/2012 1210h	7/17/2012 1411h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-007		
Client Sample ID	AS-12-02-07		
Collection Date	7/11/2012 1317h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/20/2012 1600h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/23/2012 1225h	7/26/2012 2332h	SW6020A	0 00250	0 0351	
Lead	mg/L	7/23/2012 1225h	7/27/2012 1520h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-008		
Client Sample ID	AS-12-02-08		
Collection Date	6/19/2012 1012h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/15/2012 1630h

Compound	Units	Date Prepared	Data Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/16/2012 1210h	7/17/2012 1416h	SW6020A	0 00250	0 0209	
Lead	mg/L	7/16/2012 1210h	7/17/2012 1416h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-009		
Client Sample ID	AS-12-02-09		
Collection Date	7/11/2012 1356h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/20/2012 1600h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/23/2012 1225h	7/26/2012 2337h	SW6020A	0 00250	**0 194**	
Lead	mg/L	7/23/2012 1225h	7/27/2012 1523h	SW6020A	0 0500	**0 0585**	

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-010		
Client Sample ID	AS-12-02-10		
Collection Date	6/19/2012 1030h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/15/2012 1630h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/16/2012 1210h	7/17/2012 1420h	SW6020A	0 00250	**0 0680**	
Lead	mg/L	7/16/2012 1210h	7/17/2012 1420h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-011		
Client Sample ID	AS-12-02-11		
Collection Date	7/11/2012 1419h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/20/2012 1600h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/23/2012 1225h	7/26/2012 2341h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	7/23/2012 1225h	7/26/2012 2341h	SW6020A	0 0500	**0 445**	
Cadmium	mg/L	7/23/2012 1225h	7/26/2012 2341h	SW6020A	0 00250	**0.357**	
Chromium	mg/L	7/23/2012 1225h	7/26/2012 1615h	SW6010C	0 0100	< 0 0100	
Lead	mg/L	7/23/2012 1225h	7/27/2012 1526h	SW6020A	0 0500	**0 0777**	
Mercury	mg/L	7/23/2012 1115h	7/25/2012 847h	SW7470A	0 0100	< 0 0100	
Selenium	mg/L	7/23/2012 1225h	7/26/2012 2341h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	7/23/2012 1225h	7/26/2012 2341h	SW6020A	0 0100	< 0 0100	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-012		
Client Sample ID	AS-12-02-12		
Collection Date	7/11/2012 1434h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/20/2012 1600h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/23/2012 1225h	7/27/2012 004h	SW6020A	0 00250	**0 427**	
Lead	mg/L	7/23/2012 1225h	7/27/2012 1534h	SW6020A	0 0500	**0 0936**	

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-013		
Client Sample ID	AS-12-02-13		
Collection Date	7/11/2012		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/20/2012 1600h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/23/2012 1225h	7/27/2012 009h	SW6020A	0 00250	**0.410**	
Lead	mg/L	7/23/2012 1225h	7/27/2012 1537h	SW6020A	0 0500	**0 497**	

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Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-014		
Client Sample ID	AS-12-02-14		
Collection Date	7/11/2012		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/20/2012 1600h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/23/2012 1225h	7/27/2012 015h	SW6020A	0 00250	**0 337**	
Lead	mg/L	7/23/2012 1225h	7/27/2012 1540h	SW6020A	0 0500	**0 140**	

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-015		
Client Sample ID	AS-12-02-15		
Collection Date	6/19/2012 921h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/15/2012 1630h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/16/2012 1210h	7/17/2012 1425h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	7/16/2012 1210h	7/18/2012 209h	SW6020A	0 0500	**0 482**	
Cadmium	mg/L	7/16/2012 1210h	7/17/2012 1425h	SW6020A	0 00250	**0 0677**	
Chromium	mg/L	7/16/2012 1210h	7/18/2012 1239h	SW6010C	0 0100	< 0 0100	
Lead	mg/L	7/16/2012 1210h	7/17/2012 1425h	SW6020A	0 0500	< 0 0500	*
Mercury	mg/L	7/16/2012 1530h	7/17/2012 816h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	7/16/2012 1210h	7/17/2012 1425h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	7/16/2012 1210h	7/17/2012 1425h	SW6020A	0 0100	< 0 0100	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-011A		
Client Sample ID	AS-12-02-11		
Collection Date	7/11/2012 1419h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP VOAs by GC/MS Method 8260C/1311/5030C

Analyzed 7/16/2012 1657h — **TCLP Prep Date** 7/15/2012 1630h
Units mg/L — **Dilution Factor** 20 — **Method** SW8260C

Compound	CAS Number	Reporting Limit	Analytical Result	Qual
1,1-Dichloroethene	75-35-4	0 0400	< 0 0400	
1,2-Dichloroethane	107-06-2	0 0400	< 0 0400	
1,4-Dichlorobenzene	106-46-7	0 0400	< 0 0400	
2-Butanone	78-93-3	0 200	< 0 200	
Benzene	71-43-2	0 0200	< 0 0200	
Carbon tetrachloride	56-23-5	0 0400	< 0 0400	
Chlorobenzene	108-90-7	0 0400	< 0 0400	
Chloroform	67-66-3	0 0400	< 0 0400	
Tetrachloroethene	127-18-4	0 0400	< 0 0400	
Trichloroethene	79-01-6	0 0400	< 0 0400	
Vinyl chloride	75-01-4	0 0200	< 0 0200	

Surrogate	CAS	Result	Amount Spiked	% REC	Limits	Qual
Surr Toluene-d8	2037 26-5	0 994	1 000	99 4	77 129	
Surr Dibromofluoromethane	1868-53 7	1 11	1 000	111	80-124	
Surr 4-Bromofluorobenzene	460-00-4	1 08	1 000	108	80-128	
Surr 1,2-Dichloroethane-d4	17060-07-0	1 09	1 000	109	72 151	

The pH of the sample was >2 Analysis was performed within the 7 day holding time

2nd QUARTER EVENT

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Client	Wasatch Integrated WMD
Project	2nd Qtr (A) '12
Lab Sample ID	1209297-001
Client Sample ID	AS-12-02A-1
Collection Date	9/12/2012 0820h
Received Date	9/18/2012 1324h
Contact	John Watson

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2112h	SW6020A	0 00250	**0 0179**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2112h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD
Project	2nd Qtr (A) '12
Lab Sample ID	1209297-002
Client Sample ID	AS-12-02A-2
Collection Date	9/13/2012 0848h
Received Date	9/18/2012 1324h
Contact	John Watson

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2147h	SW6020A	0 00250	**0 329**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2147h	SW6020A	0 0500	**0 265**	

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Client	Wasatch Integrated WMD
Project	2nd Qtr (A) '12
Lab Sample ID	1209297-003
Client Sample ID	AS-12-02A-3
Collection Date	9/13/2012 1001h
Received Date	9/18/2012 1324h
Contact	John Watson

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2215h	SW6020A	0 00250	**0 0143**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2215h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD
Project	2nd Qtr (A) '12
Lab Sample ID	1209297-004
Client Sample ID	AS-12-02A-4
Collection Date	9/13/2012 0922h
Received Date	9/18/2012 1324h
Contact	John Watson

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2232h	SW6020A	0 00250	**0 0445**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2232h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-005		
Client Sample ID	AS-12-02A-5		
Collection Date	9/13/2012 1032h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	9/28/2012 1045h	10/1/2012 1258h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	9/28/2012 1045h	9/29/2012 2229h	SW6020A	0 0500	**0 250**	
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2229h	SW6020A	0 00250	**0 0554**	
Chromium	mg/L	9/28/2012 1045h	9/29/2012 2229h	SW6020A	0 0100	< 0 0100	*
Lead	mg/L	9/28/2012 1045h	9/29/2012 2229h	SW6020A	0 0500	< 0 0500	*
Mercury	mg/L	9/27/2012 1630h	9/28/2012 1202h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	9/28/2012 1045h	9/29/2012 2229h	SW6020A	0 0100	< 0 0160	*
Silver	mg/L	9/28/2012 1045h	9/29/2012 2229h	SW6020A	0 0100	< 0 0100	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-006		
Client Sample ID	AS-12-02A-6		
Collection Date	9/13/2012 1117h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2237h	SW6020A	0 00250	**0 475**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2237h	SW6020A	0 0500	**0 0595**	

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Laboratory Director

Jose Rocha
QA Officer

Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-007		
Client Sample ID	AS-12-02A-7		
Collection Date	9/13/2012 1155h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2244h	SW6020A	0 00250	**0 0957**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2244h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-008		
Client Sample ID	AS-12-02A-8		
Collection Date	9/13/2012 1227h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2251h	SW6020A	0 00250	**0 0785**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2251h	SW6020A	0 0500	< 0 0500	*

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-009		
Client Sample ID	AS-12-02A-9		
Collection Date	9/13/2012 1259h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2258h	SW6020A	0 00250	**0 278**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2258h	SW6020A	0 0500	**0 0791**	

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-010		
Client Sample ID	AS-12-02A-10		
Collection Date	9/13/2012 1320h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2305h	SW6020A	0 00250	**0 343**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2305h	SW6020A	0 0500	**0 227**	

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-011		
Client Sample ID	AS-12-02A-11		
Collection Date	9/13/2012 1413h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2312h	SW6020A	0 00250	**0 562**	
Lead	mg/L	9/28/2012 1045h	9/29/2012 2312h	SW6020A	0 0500	**0 153**	

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-012		
Client Sample ID	AS-12-02A-12		
Collection Date	9/13/2012 1450h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/29/2012 2353h	SW6020A	0 00250	**0 614**	
Lead	mg/L	9/28/2012 1045h	10/1/2012 1325h	SW6020A	0 0500	**0 187**	

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-013		
Client Sample ID	AS-12-02A-13		
Collection Date	9/13/2012 1515h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	9/28/2012 1045h	10/1/2012 1529h	SW6020A	0.0100	< 0.0100	*
Barium	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0.0500	**0.515**	
Cadmium	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0.00250	**0.563**	
Chromium	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0.0100	< 0.0100	*
Lead	mg/L	9/28/2012 1045h	10/1/2012 1529h	SW6020A	0.0500	**0.976**	
Mercury	mg/L	9/27/2012 1630h	9/28/2012 1213h	SW7470A	0.0100	< 0.0100	*
Selenium	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0.0100	< 0.0100	*
Silver	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0.0100	< 0.0100	*

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-014		
Client Sample ID	AS-12-02A-14		
Collection Date	9/13/2012 1553h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	9/28/2012 1045h	9/30/2012 0009h	SW6020A	0.00250	**0.699**	
Lead	mg/L	9/28/2012 1045h	10/1/2012 1533h	SW6020A	0.0500	**0.139**	

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-015		
Client Sample ID	AS-12-02A-15		
Collection Date	9/13/2012 1630h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	9/28/2012 1045h	10/1/2012 1537h	SW6020A	0.0100	< 0.0100	*
Barium	mg/L	9/28/2012 1045h	9/30/2012 0016h	SW6020A	0.0500	**0.341**	
Cadmium	mg/L	9/28/2012 1045h	9/30/2012 0016h	SW6020A	0.00250	**0.647**	
Chromium	mg/L	9/28/2012 1045h	9/30/2012 0016h	SW6020A	0.0100	< 0.0100	*
Lead	mg/L	9/28/2012 1045h	10/1/2012 1537h	SW6020A	0.0500	**0.218**	
Mercury	mg/L	9/27/2012 1630h	9/28/2012 1215h	SW7470A	0.0100	< 0.0100	*
Selenium	mg/L	9/28/2012 1045h	9/30/2012 0016h	SW6020A	0.0100	< 0.0100	*
Silver	mg/L	9/28/2012 1045h	9/30/2012 0016h	SW6020A	0.0100	< 0.0100	*

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3rd QUARTER EVENT

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-001
Client Sample ID: AS-12-03-01
Collection Date: 9/19/2012 913h
Received Date: 10/5/2012 1323h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1615h	SW6020A	0 00250	**0 0589**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1615h	SW6020A	0 0500	< 0 0500	*

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-002
Client Sample ID: AS-12-03-02
Collection Date: 9/19/2012 948h
Received Date: 10/5/2012 1323h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1650h	SW6020A	0 00250	**0 0221**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1650h	SW6020A	0 0500	< 0 0500	*

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-003
Client Sample ID: AS-12-03-03
Collection Date: 9/19/2012 1027h
Received Date: 10/5/2012 1323h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/8/2012 1700h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0500	**0 437**	
Cadmium	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 00250	**0.102**	
Chromium	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0100	**0 0246**	
Lead	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0500	**0 103**	
Mercury	mg/L	10/9/2012 1310h	10/10/2012 1036h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	10/10/2012 910h	10/15/2012 1928h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0100	< 0 0100	*

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-004
Client Sample ID: As-12-03-04
Collection Date: 9/19/2012 1105h
Received Date: 10/5/2012 1323h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1658h	SW6020A	0 00250	**0.124**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1658h	SW6020A	0 0500	**0 0502**	

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-005
Client Sample ID: As-12-03-05
Collection Date: 9/19/2012 1130h
Received Date: 10/5/2012 1323h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1705h	SW6020A	0 00250	**0 0504**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1705h	SW6020A	0 0500	< 0 0500	*

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-006
Client Sample ID: As-12-03-06
Collection Date: 9/19/2012 1225h
Received Date: 10/5/2012 1323h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1712h	SW6020A	0 00250	**0.0323**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1712h	SW6020A	0 0500	< 0 0500	*

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-007
Client Sample ID: As-12-03-07
Collection Date: 9/19/2012 1257h
Received Date: 10/5/2012 1323h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1740h	SW6020A	0 00250	**0 0280**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1740h	SW6020A	0 0500	< 0 0500	*

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-008
Client Sample ID: As-12-03-08
Collection Date: 9/19/2012 1325h
Received Date: 10/5/2012 1323h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1747h	SW6020A	0 00250	**0 0353**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1747h	SW6020A	0 0500	< 0 0500	*

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Client: Wasatch Integrated WMD
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-009
Client Sample ID: As-12-03-09
Collection Date: 9/19/2012 1430h
Received Date: 10/5/2012 1323h

Contact: John Watson

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1754h	SW6020A	0 00250	**0.358**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1754h	SW6020A	0 0500	**0 186**	

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Client: Wasatch Integrated WMD
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-010
Client Sample ID: AS-12-03-10
Collection Date 9/19/2012 1505h
Received Date: 10/5/2012 1323h

Contact John Watson

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 10/8/2012 1700h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	10/10/2012 910h	10/12/2012 2307h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	10/10/2012 910h	10/12/2012 2307h	SW6020A	0 0500	**0 434**	
Cadmium	mg/L	10/10/2012 910h	10/12/2012 2307h	SW6020A	0 00250	**0 0805**	
Chromium	mg/L	10/10/2012 910h	10/12/2012 2307h	SW6020A	0 0100	< 0 0100	*
Lead	mg/L	10/10/2012 910h	10/12/2012 2307h	SW6020A	0 0500	**0 118**	
Mercury	mg/L	10/9/2012 1310h	10/10/2012 1041h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	10/10/2012 910h	10/15/2012 1949h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	10/10/2012 910h	10/12/2012 2307h	SW6020A	0 0100	< 0 0100	*

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Client: Wasatch Integrated WMD
Project: 3rd Qtr '12 Ash
Lab Sample ID: 1210097-011
Client Sample ID: As-12-03-11
Collection Date 9/19/2012 1533h
Received Date: 10/5/2012 1323h

Contact John Watson

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1802h	SW6020A	0 00250	**0.0755**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1802h	SW6020A	0 0500	< 0 0500	*

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QA Officer

Client: Wasatch Integrated WMD
Project: 3rd Qtr '12 Ash
Lab Sample ID 1210097-012
Client Sample ID: As-12-03-12
Collection Date: 9/19/2012 1604h
Received Date 10/5/2012 1323h

Contact John Watson

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 10/9/2012 1850h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1809h	SW6020A	0 00250	**0 0717**	
Lead	mg/L	10/11/2012 920h	10/12/2012 1809h	SW6020A	0 0500	< 0 0500	*

* *The reporting limits were raised due to sample matrix interferences*

INORGANIC ANALYTICAL REPORT

Client	Wasatch Integrated WMD	Contact	John Watson
Project	3rd Qtr '12 Ash		
Lab Sample ID	1210097-013		
Client Sample ID	As-12-03-13		
Collection Date	9/19/2012 1632h		
Received Date	10/5/2012 1323h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date	10/9/2012 1850h							
Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1816h	SW6020A	0 00250	0 0463	
Lead	mg/L	10/11/2012 920h	10/12/2012 1816h	SW6020A	0 0500	< 0 0500	*

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Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

Client	Wasatch Integrated WMD	Contact	John Watson
Project	3rd Qtr '12 Ash		
Lab Sample ID	1210097-014		
Client Sample ID	As-12-03-14		
Collection Date	9/19/2012 1700h		
Received Date	10/5/2012 1323h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date	10/9/2012 1850h							
Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	10/11/2012 920h	10/12/2012 1837h	SW6020A	0 00250	0 0432	
Lead	mg/L	10/11/2012 920h	10/12/2012 1837h	SW6020A	0 0500	0 131	

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INORGANIC ANALYTICAL REPORT

Client	Wasatch Integrated WMD	Contact	John Watson
Project	3rd Qtr '12 Ash		
Lab Sample ID	1210097-015		
Client Sample ID	AS-12-03-15		
Collection Date	9/19/2012 1730h		
Received Date	10/5/2012 1323h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date	10/8/2012 1700h							
Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	10/10/2012 910h	10/12/2012 2314h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	10/10/2012 910h	10/12/2012 2314h	SW6020A	0 0500	0.386	
Cadmium	mg/L	10/10/2012 910h	10/12/2012 2314h	SW6020A	0 00250	0.0695	
Chromium	mg/L	10/10/2012 910h	10/12/2012 2314h	SW6020A	0 0100	< 0 0100	*
Lead	mg/L	10/10/2012 910h	10/12/2012 2314h	SW6020A	0 0500	0.0585	
Mercury	mg/L	10/9/2012 1310h	10/10/2012 1045h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	10/10/2012 910h	10/15/2012 1956h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	10/10/2012 910h	10/12/2012 2314h	SW6020A	0 0100	< 0 0100	*

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4th QUARTER EVENT

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Client	Wasatch Integrated WMD	**Contact:**	John Watson
Project	4TH Qtr '12 Ash		
Lab Sample ID	1212454-001		
Client Sample ID	AS-12-04-1		
Collection Date	12/15/2012 730h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date	12/26/2012 1500h						
Compound	**Units**	**Date Prepared**	**Date Analyzed**	**Method Used**	**Reporting Limit**	**Analytical Result**	**Qual**
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 1930h	SW6020A	0 00250	**0.335**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 1930h	SW6020A	0 0500	< 0 0500	

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Client.	Wasatch Integrated WMD	**Contact**	John Watson
Project:	4TH Qtr '12 Ash		
Lab Sample ID	1212454-002		
Client Sample ID	AS 12-04-2		
Collection Date	12/15/2012 800h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date	12/26/2012 1500h						
Compound	**Units**	**Date Prepared**	**Date Analyzed**	**Method Used**	**Reporting Limit**	**Analytical Result**	**Qual**
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 1936h	SW6020A	0 00250	**0 536**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 1936h	SW6020A	0 0500	**0 251**	

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project	4TH Qtr '12 Ash		
Lab Sample ID	1212454-003		
Client Sample ID:	AS-12-04-3		
Collection Date	12/15/2012 830h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date	12/26/2012 1500h						
Compound	**Units**	**Date Prepared**	**Date Analyzed**	**Method Used**	**Reporting Limit**	**Analytical Result**	**Qual**
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2018h	SW6020A	0 00250	**0 515**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2018h	SW6020A	0 0500	**0 409**	

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Client	Wasatch Integrated WMD	**Contact**	John Watson
Project.	4TH Qtr '12 Ash		
Lab Sample ID	1212454-004		
Client Sample ID	AS-12-04-4		
Collection Date	12/15/2012 900h		
Received Date.	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date	12/26/2012 1500h						
Compound	**Units**	**Date Prepared**	**Date Analyzed**	**Method Used**	**Reporting Limit**	**Analytical Result**	**Qual**
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2023h	SW6020A	0 00250	**0.438**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2023h	SW6020A	0 0500	**0 101**	

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	4TH Qtr '12 Ash		
Lab Sample ID	1212454-005		
Client Sample ID	AS-12-04-5		
Collection Date	12/15/2012 930h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2019h	SW6020A	0 00250	**0 404**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2019h	SW6020A	0 0500	**0 0874**	

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INORGANIC ANALYTICAL REPORT

Client	Wasatch Integrated WMD	Contact	John Watson
Project	4TH Qtr '12 Ash		
Lab Sample ID	1212454-006		
Client Sample ID	AS-12-04-6		
Collection Date	12/15/2012 1000h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2034h	SW6020A	0 00250	**0 469**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2034h	SW6020A	0 0500	**0.177**	

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INORGANIC ANALYTICAL REPORT

Client	Wasatch Integrated WMD	Contact	John Watson
Project:	4TH Qtr '12 Ash		
Lab Sample ID	1212454-007		
Client Sample ID:	AS-12-04-7		
Collection Date	12/15/2012 1030h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/27/2012 1405h	12/28/2012 1306h	SW6020A	0 0100	< 0 0100	
Barium	mg/L	12/27/2012 1405h	12/27/2012 2039h	SW6020A	0 0500	**0 436**	
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2039h	SW6020A	0 00250	**0 496**	
Chromium	mg/L	12/27/2012 1405h	12/27/2012 2039h	SW6020A	0 0100	< 0 0100	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2039h	SW6020A	0 0500	**0 225**	
Mercury	mg/L	12/27/2012 1445h	12/28/2012 818h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	12/27/2012 1405h	12/27/2012 2039h	SW6020A	0 0100	< 0 0100	
Silver	mg/L	12/27/2012 1405h	12/27/2012 2039h	SW6020A	0 0100	< 0 0100	

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INORGANIC ANALYTICAL REPORT

Client	Wasatch Integrated WMD	Contact:	John Watson
Project:	4TH Qtr '12 Ash		
Lab Sample ID	1212454-008		
Client Sample ID:	AS-12-04-8		
Collection Date	12/15/2012 1100h		
Received Date:	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2044h	SW6020A	0 00250	**0.646**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2044h	SW6020A	0 0500	**0 137**	

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 4TH Qtr '12 Ash
Lab Sample ID: 1212454-009
Client Sample ID: AS-12-04-9
Collection Date: 12/15/2012 1130h
Received Date: 12/20/2012 1000h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2050h	SW6020A	0 00250	**0 195**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2050h	SW6020A	0 0500	**0.0505**	

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Client: Wasatch Integrated WMD Contact: John Watson
Project: 4TH Qtr '12 Ash
Lab Sample ID: 1212454-010
Client Sample ID: AS-12-04-10
Collection Date: 12/15/2012 1200h
Received Date: 12/20/2012 1000h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2055h	SW6020A	0 00250	**0 262**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2055h	SW6020A	0 0500	**0 212**	

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Client: Wasatch Integrated WMD Contact John Watson
Project 4TH Qtr '12 Ash
Lab Sample ID 1212454-011
Client Sample ID AS-12-04-11
Collection Date 12/15/2012 1230h
Received Date 12/20/2012 1000h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2100h	SW6020A	0 00250	**0 619**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2100h	SW6020A	0 0500	**1 62**	

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Client Wasatch Integrated WMD Contact John Watson
Project: 4TH Qtr '12 Ash
Lab Sample ID 1212454-012
Client Sample ID AS-12-04-12
Collection Date 12/15/2012 1300h
Received Date. 12/20/2012 1000h

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2106h	SW6020A	0 00250	**0 545**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2106h	SW6020A	0 0500	**0 0878**	

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	4TH Qtr '12 Ash		
Lab Sample ID	1212454-013		
Client Sample ID	AS-12-04-13		
Collection Date	12/15/2012 1330h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date: 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/27/2012 1405h	12/28/2012 1310h	SW6020A	0 0100	< 0 0100	
Barium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0500	**0 376**	
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 00250	**0.555**	
Chromium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0100	< 0 0100	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0500	**0 174**	
Mercury	mg/L	12/27/2012 1445h	12/28/2012 825h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0100	< 0 0100	
Silver	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0100	< 0 0100	

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INORGANIC ANALYTICAL REPORT

Client	Wasatch Integrated WMD	Contact	John Watson
Project	4TH Qtr '12 Ash		
Lab Sample ID	1212454-014		
Client Sample ID	AS-12-04-14		
Collection Date	12/15/2012 1400h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2132h	SW6020A	0 00250	**0.941**	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2132h	SW6020A	0 0500	**0 0714**	

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Client	Wasatch Integrated WMD	Contact	John Watson
Project	4TH Qtr '12 Ash		
Lab Sample ID	1212454-015		
Client Sample ID	AS-12-04-15		
Collection Date	12/15/2012 1430h		
Received Date	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/27/2012 1405h	12/28/2012 1315h	SW6020A	0 0100	< 0 0100	
Barium	mg/L	12/27/2012 1405h	12/27/2012 2138h	SW6020A	0 0500	**0 428**	
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2138h	SW6020A	0 00250	**0.583**	
Chromium	mg/L	12/27/2012 1405h	12/27/2012 2138h	SW6020A	0 0100	< 0 0100	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2138h	SW6020A	0 0500	**0 271**	
Mercury	mg/L	12/27/2012 1445h	12/28/2012 830h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	12/27/2012 1405h	12/27/2012 2138h	SW6020A	0 0100	< 0 0100	
Silver	mg/L	12/27/2012 1405h	12/27/2012 2138h	SW6020A	0 0100	< 0 0100	

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ATTACHMENT II

EXTRACTION FLUID DETERMINATION LOGS

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 7-20-12 | Extraction End Date 7-21-12 | Room Temperature (Req 23 ± 2°C) 25 / 24 | Fluid ID * TCLP-F1-120719
Starting Analyst [illegible] | Ending Analyst [illegible] | Tumbler RPM (Req. 30 ± 2 rpm) 30 | Fluid pH 4.88
Start Time 16:00 / 17:00 | Stop Time 11:10 | Oven Temp (Req 100±20°C) N/A | Thermometer ID 65, Hot Flash
Prep Batch ID See below | Time tumbled (Req 18 ± 2 hours) 19 / 18 | Balance ID Courtney | Balance ID Ashley

	Pre-Extraction					Extraction			Post Extraction
	Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
*	MB-TCLP-20084	metals	NA	NA	NA	NA / NA	I or II	2000	NA
	1207205-003A	metals	9	3	100	100g / NA	I or II	2000	7
	1207205-005A	metals	10	5	100	100g / NA	I or II	2000	7
	1207205-007A	metals	10	4	100	100g / NA	I or II	2000	7
	1207205-009A	metals	9	3	100	100g / NA	I or II	2000	7
	1207205-011A	metals	8	4	100	100g / NA	I or II	2000	7
	1207205-012A	metals	8	4	100	100g / NA	I or II	2000	7
	1207205-013A	metals	9	4	100	100g / NA	I or II	2000	7
	1207205-014A	metals	8	4	100	100g / NA	I or II	2000	7
Δ	MB-TCLP-20055	metals	NA	NA	NA	NA / NA	I or II	2000	NA
	1207327-001A	metals	6	6	100	100g / NA	I or II	2000	6
	1207327-002A	metals	6	6	100	100g / NA	I or II	2000	6
	1207327-003A	metals	6	6	100	100g / NA	I or II	2000	6

Comments Δ - TCLP-F2-120720 pH 2.89
NA
NA
NA

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 7-15-12 | Extraction End Date 7-16-12 | Room Temperature (Req 23 ± 2°C) 22.5 / 21.4 | Fluid ID See below
Starting Analyst [illegible] | Ending Analyst [illegible] | Tumbler RPM (Req 30 ± 2 rpm) 30 | Fluid pH See below
Start Time 16:30 | Stop Time 1030 | Oven Temp (Req 100±20°C) NA | Thermometer ID 65, Hot Flash
Prep Batch ID See below | Time tumbled (Req 18 ± 2 hours) 18 | Balance ID Courtney | Balance ID. Ashley

	Pre-Extraction					Extraction			Post Extraction
	Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
*	MB-TCLP-19919	metals	NA	NA	NA	NA / NA	I or II	2000	NA
	1207183-001F	metals	5	5	92.3	100 / 92.3g	I or II	1846	5
	1207205-001A	metals	10	4	100	100g / NA	I or II	2000	7
	1207205-002A	metals	9	4	100	100g / NA	I or II	2000	7
	1207205-004A	metals	10	3	100	100g / NA	I or II	2000	8
	1207205-006A	metals	10	3	100	100g / NA	I or II	2000	8
	1207205-008A	metals	10	4	100	100g / NA	I or II	2000	7
	1207205-010A	metals	9	3	100	100g / NA	I or II	2000	7
	1207205-015A	metals	9	5	100	100g / NA	I or II	2000	8
Δ	MB-TCLP-19916	ZHE	NA	NA	NA	NA / NA	I or II	500	NA
	1207183-001E	ZHE	NA	NA	92.3	25g / 23.1g	I or II	462	NA
	1207205-011A	ZHE	NA	NA	100	25g / NA	I or II	500	NA
					7/15/12	/	I or II		

Comments *- TCLP-F1-120705 pH 4.88
Δ - TCLP-F1E-120711 pH 4.91
NA
NA

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 9-26-12 | Extraction End Date 9-27-12 | Room Temperature (Req 23 ± 2°C) 22.1 | Fluid ID TCLP-FI-120926
Starting Analyst [illegible] | Ending Analyst [illegible] | Tumbler RPM (Req 30 ± 2 rpm) 30 | Fluid pH 4.90
Start Time 20:10 | Stop Time 12:10 | Oven Temp (Req 100±20°C) N/A | Thermometer ID 65, Hot Flash
Prep Batch ID 21312 | Time tumbled (Req 18 ± 2 hours) 16 | Balance ID Courtney | Balance ID Ashley

Pre-Extraction					Extraction			Post Extraction
Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
* 1209297-012A	metals	8	4	100	100g / N/A	(1) or II	2000	~~N/A~~ 7 9-27-12
1209297-014A	metals	8	4	100	100g / N/A	(1) or II	2000	7
1209297-015A	metals	8	4	100	100g / N/A	(1) or II	2000	7
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		

Comments * continued from page 41. N/A N/A N/A

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 9-26-12 | Extraction End Date 9-27-12 | Room Temperature (Req 23 ± 2°C) 22.1 | Fluid ID TCLP-FI-120926
Starting Analyst [illegible] | Ending Analyst [illegible] | Tumbler RPM (Req 30 ± 2 rpm) 30 | Fluid pH 4.90
Start Time 20:10 | Stop Time 12:10 | Oven Temp (Req 100±20°C) N/A | Thermometer ID 65, Hot Flash
Prep Batch ID 21312 | Time tumbled (Req 18 ± 2 hours) 16 | Balance ID Courtney | Balance ID Ashley

Pre-Extraction					Extraction			Post Extraction
Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
MB-TCLP-21312	metals	N/A	N/A	N/A	N/A / N/A	(1) or II	2000	N/A
1209297-001A	metals	9	2	100	100g / N/A	(1) or II	2000	7
1209297-002A	metals	8	2	100	100g / N/A	(1) or II	2000	7
1209297-003A	metals	9	2	100	100g / N/A	(1) or II	2000	7
1209297-004A	metals	9	2	100	100g / N/A	(1) or II	2000	7
1209297-005A	metals	9	3	100	100g / N/A	(1) or II	2000	7
1209297-006A	metals	10	3	100	100g / N/A	(1) or II	2000	7
1209297-007A	metals	9	3	100	100g / N/A	(1) or II	2000	7
1209297-008A	metals	9	3	100	100g / N/A	(1) or II	2000	7
1209297-009A	metals	9	2	100	100g / N/A	(1) or II	2000	7
1209297-010A	metals	9	2	100	100g / N/A	(1) or II	2000	7
1209297-011A	metals	8	3	100	100g / N/A	(1) or II	2000	7
1209297-012A	metals	8	3	100	100g / N/A	(1) or II	2000	7

Comments N/A N/A N/A N/A

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 10-9-12 | Extraction End Date 10-10-12 | Room Temperature (Req. 23 ± 2°C) 23.8/21 | Fluid ID TCLP-FI-121009
Starting Analyst [illegible] | Ending Analyst [illegible] | Tumbler RPM (Req. 30 ± 2 rpm). 30 | Fluid pH 4.88
Start Time 15:50 | Stop Time 11:00 | Oven Temp (Req 100±20°C) N/A | Thermometer ID 65, Hot Flash
Prep Batch ID 215688 | Time tumbled (Req 18 ± 2 hours) 16 | Balance ID. Courtney | Balance ID Ashley

Pre-Extraction					Extraction			Post Extraction
Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
MB-TCLP-215688	metals	N/A	N/A	N/A	N/A / N/A	(1) or II	2000	N/A
1210097-001A	metals	9	4	100	100g / N/A	(1) or II	2000	7
1210097-002A	metals	10	5	100	100g / N/A	(1) or II	2000	7
1210097-004A	metals	9	5	100	100g / N/A	(1) or II	2000	7
1210097-005A	metals	9	5	100	100g / N/A	(1) or II	2000	7
1210097-006A	metals	9	5	100	100g / N/A	(1) or II	2000	7
1210097-007A	metals	9	5	100	100g / N/A	(1) or II	2000	7
1210097-008A	metals	9	4	100	100g / N/A	(1) or II	2000	8
1210097-009A	metals	9	5	100	100g / N/A	(1) or II	2000	7
1210097-011A	metals	10	5	100	100g / N/A	(1) or II	2000	7
1210097-012A	metals	10	5	100	100g / N/A	(1) or II	2000	7
1210097-013A	metals	9	4	100	100g / N/A	(1) or II	2000	7
* 1210097-014A	metals	10	5	100	100g / N/A	(1) or II	2000	8

Comments * continued on next page.
N/A
N/A
N/A

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 10-8-12 | Extraction End Date 10-9-12 | Room Temperature (Req 23 ± 2°C) 22.6/21 | Fluid ID 1210003 TCLP-FI-120926 4 10-9-12
Starting Analyst [illegible] | Ending Analyst [illegible] | Tumbler RPM (Req 30 ± 2 rpm) 30 | Fluid pH 10-9-12 4.20 4.90 4.88
Start Time 17:00 | Stop Time 10:05 | Oven Temp (Req 100±20°C) 103° | Thermometer ID 65, Hot Flash in Lunch
Prep Batch ID See below | Time tumbled (Req 18 ± 2 hours) 17 | Balance ID Courtney | Balance ID Ashley

Pre-Extraction					Extraction			Post Extraction
Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
MB-TCLP-215371	metals	N/A	N/A	N/A	N/A / N/A	(1) or II	2000	N/A
→ 1210048-003A	metals	7	3	100	100g / N/A	(1) or II	2000	8
1210097-003A	metals	9	5	100	100g / N/A	(1) or II	2000	7
1210097-010A	metals	9	3	100	100g / N/A	(1) or II	2000	7
1210097-015A	metals	9	5	100	100g / N/A	(1) or II	2000	7
1210109-002A	metals	5	5	100	100g / N/A	(1) or II	2000	6
1210062-001A	metals	6	2	86.2	100g / 86.2g	(1) or II	1724	5
→ MB-TCLP-215376	metals	N/A	N/A	N/A	N/A / N/A	(1) or II	2000	N/A
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		

All next one MB

10/9/12

Comments N/A
N/A
N/A
N/A

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 12-26-12 | Extraction End Date. 12-27-12 | Room Temperature (Req 23 ± 2°C) 21.0 / 21.0 | Fluid ID TCLP-F1-121226 | 12-26-12
Starting Analyst [illegible] | Ending Analyst [illegible] | Tumbler RPM (Req 30 ± 2 rpm) 30 | Fluid pH 4.88
Start Time. 15:00 | Stop Time 9:38 | Oven Temp (Req 100±20°C) N/A | Thermometer ID 65, Hot Flash
Prep Batch ID 22895 | Time tumbled (Req. 18 ± 2 hours) 19 | Balance ID Courtney | Balance ID Ashley

	Pre-Extraction				Extraction			Post Extraction
Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
MB-TCLP-22895	metals	N/A	N/A	N/A	N/A / N/A	(I) or II	2000	N/A
1212454-001A	metals	9	3	100	100g / N/A	(I) or II	2000	8
1212454-002A	metals	8	2	100	100g / N/A	(I) or II	2000	7
1212454-003A	metals	9	3	100	100g / N/A	(I) or II	2000	7
1212454-004A	metals	9	3	100	100g / N/A	(I) or II	2000	7
1212454-005A	metals	10	5	100	100g / N/A	(I) or II	2000	8
1212454-006A	metals	9	3	100	100g / N/A	(I) or II	2000	8
1212454-007A	metals	9	2	100	100g / N/A	(I) or II	2000	8
1212454-008A	metals	9	4	100	100g / N/A	(I) or II	2000	8
1212454-009A	metals	8	2	100	100g / N/A	(I) or II	2000	7
1212454-010A	metals	9	3	100	100g / N/A	(I) or II	2000	8
1212454-011A	metals	9	3	100	100g / N/A	(I) or II	2000	7
★ 1212454-012★	metals	9	4	100	100g / N/A	(I) or II	2000	8

Comments ★ continued on next page [illegible] 12-26-12

N/A
N/A
N/A

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 10-9-12 | Extraction End Date 10-10-12 | Room Temperature (Req. 23 ± 2°C). 23.5 / 21 | Fluid ID. See below
Starting Analyst [illegible] | Ending Analyst [illegible] | Tumbler RPM (Req. 30 ± 2 rpm). 30 | Fluid pH See below
Start Time: 18:50 | Stop Time. 11:00 | Oven Temp (Req 100±20°C). N/A | Thermometer ID 65, Hot Flash
Prep Batch ID See below | Time tumbled (Req 18 ± 2 hours) 16 | Balance ID Courtney | Balance ID Ashley

		Pre-Extraction				Extraction			Post Extraction
	Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
★	1210143-002A	metals	5	5	100	100g / N/A	(I) or II	2000	5
	1210144-001A	metals	6	2	100	100g / N/A	(I) or II	2000	5
o	MB-TCLP 21569	metals	N/A	N/A	N/A	N/A / N/A	I or (II)	2000	N/A
	1210144-002A	metals	6	6	100	100g / N/A	I or (II)	2000	6
						/	I or II		
						/	I or II		
						/	I or II		
						/	I or II		
						/	I or II		
						/	I or II		
						/	I or II		
						/	I or II		
						/	I or II		

Comments ★ contd from page 2 - MB-21569 TCLP-F1-121009 pH. 4.88
o - TCLP-F2-121009 pH. 2.83

N/A
N/A

American West Analytical Laboratories

TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date 12-26-12 | Extraction End Date 12-27-12 | Room Temperature (Req 23 ± 2°C) 21.0 / 21.0 | Fluid ID TCLP-FI-121226-12
Starting Analyst JL | Ending Analyst JL | Tumbler RPM (Req 30 ± 2 rpm) 30 | Fluid pH 4.88
Start Time 15:00 | Stop Time 9:58 | Oven Temp (Req 100±20°C) N/A | Thermometer ID 65, Hot Flash
Prep Batch ID 122895 | Time tumbled (Req 18 ± 2 hours) 19 | Balance ID Courtney | Balance ID Ashley

Pre-Extraction					Extraction			Post Extraction
Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
* 1212454-013A	metals	9	4	100	100g / N/A	(I) or II	2000	8
1212454-014A	metals	9	4	100	100g / N/A	(I) or II	2000	8
1212454-015A	metals	9	2	100	100g / N/A	(I) or II	2000	7
1212483-001C	metals	6	5	100	100g / N/A	(I) or II	2000	7
1212484-001A	metals	9	2	100	100g / N/A	(I) or II	2000	5
1212452-001D	metals	5	5	100	100g / N/A	(I) or II	2000	5
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		
					/	I or II		

Comments * Continued from last page JL 12-26-12

N/A
N/A
N/A

ATTACHMENT III

CHAIN OF CUSTODY

Client Wasatch Integrated Waste
Address 3404 N. 650 E
Layton (City) Ut (State) 84041 (Zip)
Phone 801-614-5603 Fax 801-614-5653
Contact John Watson
E-mail johnw@wiwmd.org
Project Name 2nd Qtr '12 Ash Samples
Project Number/P O #
Sampler Name John Watson

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1207205
Page 2 of 2

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard (circled)

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TCLP Metals RCRA	TCLP Cd & Pb	ZHE Organics							COMMENTS
AS-12-02-~~0~~13	7/11/12				X								
-14	7/11/12				X								
-15	6/19/12 9:21			X									

QC LEVEL: 1 2 2+ (circled) 3 3+ 4

Relinquished By: Signature	Date	Received By: Signature	Date
[signature]	7/13/12	[signature]	7-13-12
PRINT NAME John Watson	Time 8:10	PRINT NAME Lynn Turner	Time 8:10
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered (circled: hand delivered)
Notes
2 Ambient (circled) or Chilled
Notes
3 Temperature 24.3
4 Received Broken/Leaking (Improperly Sealed) Y N (circled)
Notes
5 Properly Preserved Y (circled) N
Checked at Bench Y N
Notes
6 Received Within Holding Times Y (circled) N
Notes

COC Tape Was:
1 Present on Outer Package Y N NA (circled)
2 Unbroken on Outer Package Y N NA (circled)
3 Present on Sample Y N NA (circled)
4 Unbroken on Sample Y N NA (circled)

Discrepancies Between Sample Labels and COC Record? Y N (circled)
Notes

Client Wasatch Integrated Waste
Address 3404 N. 650 E
Layton (City) Ut (State) 84041 (Zip)
Phone 801-614-5603 Fax 801-614-5653
Contact John Watson
E-mail johnw@wiwmd.org
Project Name 2nd Qtr '12 Ash Samples
Project Number/P O #
Sampler Name John Watson

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1207205
Page 1 of 2

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard (circled)

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TCLP Metals RCRA	TCLP Cd & Pb	ZHE Organics							COMMENTS
AS-12-02-01	6/19/12 11:00				X								
-02	6/19/12 9:21			X		~~X~~							cancel ZHE per John [initials] 7/13/12
-03	7/11/12 12:14				X								
-04	6/19/12 9:30				X								
-05	7/11/12 12:36				X								
-06	6/19/12 9:52				X								
-07	7/11/12 13:17				X								
-08	6/19/12 10:12				X								
-09	7/11/12 13:56				X								
-10	6/19/12 10:30				X								
-11	7/11/12 14:19			X		X*							*run ZHE on this sample, not #2, it's outside of bld [initials] 7/13/12
-12	7/11/12 14:34				X								

QC LEVEL: 1 2 2+ (circled) 3 3+ 4

Relinquished By: Signature	Date	Received By: Signature	Date
[signature]	7/13/12	[signature]	7-13-12
PRINT NAME John Watson	Time 8:10	PRINT NAME Lynn Turner	Time 8:10
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered (circled: hand delivered)
Notes
2 Ambient (circled) or Chilled
Notes
3 Temperature 24.3
4 Received Broken/Leaking (Improperly Sealed) Y N (circled)
Notes
5 Properly Preserved Y (circled) N
Checked at Bench Y N
Notes
6 Received Within Holding Times Y (circled) N
Notes

COC Tape Was:
1 Present on Outer Package Y N NA (circled)
2 Unbroken on Outer Package Y N NA (circled)
3 Present on Sample Y N NA (circled)
4 Unbroken on Sample Y N NA (circled)

Discrepancies Between Sample Labels and COC Record? Y N (circled)
Notes

Client: Wasatch Integrated Waste
Address: 3404 N. 650 E
Layton UT 84041
City State Zip
Phone: 801-614-5603 Fax: 801-614-5653
Contact: John Watson
E-mail: johnw@wiwmd.org
Project Name: 2nd Qtr (A) '12
Project Number/P O #:
Sampler Name: John Watson / Brent Larsen

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set #: 1209297
Page 1 of 2

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day (Standard)

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED: TCLP METALS 8021A	TCLP Cd & Pb
AS-12-02A-1	9/12/12 8:20				X
-2	9/13/12 8:48				X
-3	10:01				X
-4	9:22				X
-5	10:32			X	
-6	11:17				X
-7	11:55				X
-8	12:27				X
-9	12:59				X
-10	13:20				X
-11	14:13				X
-12	14:50				X

QC LEVEL: 1 2 (2+) 3 3+ 4

COMMENTS

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered (Notes)
2 Ambient or Chilled (Notes)
3 Temperature 22.7
4 Received Broken/Leaking (Improperly Sealed) Y N (Notes)
5 Properly Preserved Y N
Checked at Bench Y N (Notes)
6 Received Within Holding Times Y N (Notes)

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N (Notes)

Relinquished By: Signature	Date	Time	Received By: Signature	Date	Time
PRINT NAME: John Watson	9/18/12	1324	PRINT NAME: Elma Hayes	9/18/12	1324
Relinquished By: Signature	Date	Time	Received By: Signature	Date	Time
PRINT NAME			PRINT NAME		
Relinquished By: Signature	Date	Time	Received By: Signature	Date	Time
PRINT NAME			PRINT NAME		
Relinquished By: Signature	Date	Time	Received By: Signature	Date	Time
PRINT NAME			PRINT NAME		

Special Instructions
Trip 17.3

Client: Wasatch Integrated Waste
Address: 3404 N. 650 E
Layton UT 84041
City State Zip
Phone: 801-614-5603 Fax: 801-614-5653
Contact: John Watson
E-mail: johnw@wiwmd.org
Project Name: 2nd Qtr (A) '12
Project Number/P O #:
Sampler Name: John Watson / Brent Larsen

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set #: 1209297
Page 2 of 2

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day (Standard)

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED: TCLP METALS 8021A	TCLP Cd & Pb
AS-12-02A-13	9/13/12 15:15			X	
-14	15:53				X
-15	16:30			X	

QC LEVEL: 1 2 (2+) 3 3+ 4

COMMENTS

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered (Notes)
2 Ambient or Chilled (Notes)
3 Temperature 22.7
4 Received Broken/Leaking (Improperly Sealed) Y N (Notes)
5 Properly Preserved Y N
Checked at Bench Y N (Notes)
6 Received Within Holding Times Y N (Notes)

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N (Notes)

Relinquished By: Signature	Date	Time	Received By: Signature	Date	Time
PRINT NAME: John Watson	9/18/12	1324	PRINT NAME: Elma Hayes	9/18/12	1324
Relinquished By: Signature	Date	Time	Received By: Signature	Date	Time
PRINT NAME			PRINT NAME		
Relinquished By: Signature	Date	Time	Received By: Signature	Date	Time
PRINT NAME			PRINT NAME		
Relinquished By: Signature	Date	Time	Received By: Signature	Date	Time
PRINT NAME			PRINT NAME		

Special Instructions

Client Wasatch Integrated Waste
Address 3404 N. 650 E
LAYTON UT 84041
City State Zip
Phone 801-614-5603 Fax 801-614-5653
Contact John Watson
E-mail johnw@wiwmd.org
Project Name 3rd Qtr '12 Ash
Project Number/P O #
Sampler Name Brent Larsen

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1210077
Page 2 of 2

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day (Standard)

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED: TCLP METALS RCRA	TCLP Cd & Pb
AS-12-03-13	9/18/12 1638				X
-14	1700				X
-15	1730			X	

QC LEVEL: 1 2 2+ 3 3+ 4
COMMENTS

LABORATORY USE ONLY
SAMPLES WERE
1 Shipped or hand delivered *Notes*
2 Ambient or Chilled *Notes*
3 Temperature
4 Received Broken/Leaking (Improperly Sealed) Y N *Notes*
5 Properly Preserved Y N Checked at Bench Y N *Notes*
6 Received Within Holding Times Y N *Notes*

COC Tape Was
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N *Notes*

Relinquished By Signature	Date	Time	Received By Signature	Date	Time
PRINT NAME Brent Larsen	9/18/12	18:05	PRINT NAME John Watson	9/18/12	18:05
Relinquished By Signature	10/5/12	1323	Received By Signature	10/5/12	
PRINT NAME John Watson			PRINT NAME		
Relinquished By Signature	Date	Time	Received By Signature	Date	Time
PRINT NAME			PRINT NAME		
Relinquished By Signature	Date	Time	Received By Signature	Date	Time
PRINT NAME			PRINT NAME		

Special Instructions

Client Wasatch Integrated Waste
Address 3404 N. 650 E
LAYTON UT 84041
City State Zip
Phone 801-614-5603 Fax 801-614-5653
Contact John Watson
E-mail johnw@wiwmd.org
Project Name 3rd Qtr '12 Ash
Project Number/P O #
Sampler Name Brent Larsen

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463 West 3600 South
Salt Lake City, Utah 84115
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Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1210147
Page 1 of 2

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day (Standard)

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED: TCLP METALS RCRA	TCLP Cd & Pb
AS-12-03-01	9/18/12 0913				X
-02	0948				X
-03	1027			X	
-04	1105				X
-05	1130				X
-06	1225				X
-07	1257				X
-08	1325				X
-09	1430				X
-10	1505			X	X
-11	1539				X
-12	1604				X

QC LEVEL: 1 2 2+ 3 3+ 4
COMMENTS

LABORATORY USE ONLY
SAMPLES WERE
1 Shipped or hand delivered *Notes*
2 Ambient or Chilled *Notes*
3 Temperature
4 Received Broken/Leaking (Improperly Sealed) Y N *Notes*
5 Properly Preserved Y N Checked at Bench Y N *Notes*
6 Received Within Holding Times Y N *Notes*

COC Tape Was
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA

Discrepancies Between Sample Labels and COC Record? Y N *Notes*

Relinquished By Signature	Date	Time	Received By Signature	Date	Time
PRINT NAME Brent Larsen	9/18/12	18:05	PRINT NAME John Watson	9/18/12	18:05
Relinquished By Signature	10/5/12	1323	Received By Signature	10/5/12	
PRINT NAME John Watson			PRINT NAME		
Relinquished By Signature	Date	Time	Received By Signature	Date	Time
PRINT NAME			PRINT NAME		
Relinquished By Signature	Date	Time	Received By Signature	Date	Time
PRINT NAME			PRINT NAME		

Special Instructions

Client: Wasatch Integrated Waste
Address: 3404 N. 650 E
LAYTON UT 84041
City State Zip
Phone: 801-614-5603 Fax: 801-614-5653
Contact: JOHN WATSON
E-mail: johnw@wiwmd.org
Project Name: 4th Qtr '12 Ash
Project Number/P O #:
Sampler Name: Jon Corbin

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Salt Lake City, Utah 84115
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Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1212454
Page 1 of 2

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day (Standard)

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED: TCLP METALS RCRA	TCLP C4 & Pb
AS-12-04-1	12/15/12 0730				X
-2	0800				X
-3	0830				X
-4	0900				X
-5	0930				X
-6	1000				X
-7	1030			X	
-8	1100				X
-9	1130				X
-10	1200				X
-11	1230				X
-12	1300				X

QC LEVEL: 1 2 (2+) 3 3+ 4

COMMENTS

LABORATORY USE ONLY
SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 16.4°
4 Received Broken/Leaking (Improperly Sealed) Y (N)
Notes:
5 Properly Preserved (Y) N
Checked at Bench Y N
Notes:
6 Received Within Holding Times (Y) N
Notes:

COC Tape Was
1 Present on Outer Package Y N (NA)
2 Unbroken on Outer Package Y N (NA)
3 Present on Sample Y N (NA)
4 Unbroken on Sample Y N (NA)
Discrepancies Between Sample Labels and COC Record? Y (N)
Notes:

Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME: Jon Corbin	Time: 1000	PRINT NAME: John Watson	Time: 10:00
Relinquished By: Signature	Date: 12/20/12	Received By: Signature	Date: 12-20-12
PRINT NAME: John Watson	Time: 0900	PRINT NAME: CHAD STAPLES	Time: 9:00
Relinquished By: Signature	Date: 12-20-12	Received By: Signature	Date: 12/20/12
PRINT NAME: CHAD STAPLES	Time: 10:00	PRINT NAME: Denise Brown	Time: 10:00
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:
Do not conduct "initial and adjusted" pH test without witness representative present.
-Chad Staples stayed to witness Russ take pHs.-
DB 12/20/12

Client: Wasatch Integrated Waste
Address: 3404 N. 650 E
LAYTON UT 84041
City State Zip
Phone: 801-614-5603 Fax: 801-614-5653
Contact: JOHN WATSON
E-mail: johnw@wiwmd.org
Project Name: 4th Qtr '12 Ash
Project Number/P O #:
Sampler Name: Jon Corbin

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Salt Lake City, Utah 84115
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Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 1212454
Page 2 of 2

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day (Standard)

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	TESTS REQUIRED: TCLP METALS RCRA	TCLP C4 & Pb
AS-12-04-13	12/15/12 1330			X	
-14	1400				X
-15	1430			X	

QC LEVEL: 1 2 (2+) 3 3+ 4

COMMENTS

LABORATORY USE ONLY
SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 16.4°
4 Received Broken/Leaking (Improperly Sealed) Y (N)
Notes:
5 Properly Preserved (Y) N
Checked at Bench Y N
Notes:
6 Received Within Holding Times (Y) N
Notes:

COC Tape Was
1 Present on Outer Package Y N (NA)
2 Unbroken on Outer Package Y N (NA)
3 Present on Sample Y N (NA)
4 Unbroken on Sample Y N (NA)
Discrepancies Between Sample Labels and COC Record? Y (N)
Notes:

Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME: Jon Corbin	Time: 1000	PRINT NAME: John Watson	Time: 10:00
Relinquished By: Signature	Date: 12/20/12	Received By: Signature	Date: 12-20-12
PRINT NAME: John Watson	Time: 0900	PRINT NAME: CHAD STAPLES	Time: 9:00
Relinquished By: Signature	Date: 12-20-12	Received By: Signature	Date: 12/20/12
PRINT NAME: CHAD STAPLES	Time: 10:00	PRINT NAME: Denise Brown	Time: 10:00
Relinquished By: Signature	Date	Received By: Signature	Date
PRINT NAME	Time	PRINT NAME	Time

Special Instructions:
Do not conduct "initial and adjusted" pH test without witness representative present.

ATTACHMENT IV

DUPLICATE SAMPLE ANALYSIS

INORGANIC ANALYTICAL REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

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Salt Lake City, Utah
84115

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Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail awal@awal-labs com

Client.	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr' 12 Ash Samples		
Lab Sample ID	1207205-002		
Client Sample ID	AS-12-02-02		
Collection Date:	6/19/2012 921h		
Received Date	7/13/2012 810h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 7/15/2012 1630h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	7/16/2012 1210h	7/18/2012 2044h	SW6020A	0 0500	**0 520**	
Cadmium	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 00250	**0 101**	
Chromium	mg/L	7/16/2012 1210h	7/18/2012 1235h	SW6010C	0 0100	< 0 0100	
Lead	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0500	< 0 0500	*
Mercury	mg/L	7/16/2012 1530h	7/17/2012 809h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0100	< 0 0100	*

* *The reporting limits were raised due to sample matrix interferences*

Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

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Salt Lake City, Utah
84115

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e-mail awal@awal-labs com

Client	Wasatch Integrated WMD	Contact	John Watson
Project	2nd Qtr (A) '12		
Lab Sample ID	1209297-013		
Client Sample ID	AS-12-02A-13		
Collection Date	9/13/2012 1515h		
Received Date	9/18/2012 1324h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 9/26/2012 2010h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	9/28/2012 1045h	10/1/2012 1329h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0 0500	**0 515**	
Cadmium	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0 00250	**0 563**	
Chromium	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0 0100	< 0 0100	*
Lead	mg/L	9/28/2012 1045h	10/1/2012 1329h	SW6020A	0 0500	**0 976**	
Mercury	mg/L	9/27/2012 1630h	9/28/2012 1211h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	9/28/2012 1045h	9/30/2012 0002h	SW6020A	0 0100	< 0 0100	*

* *The reporting limits were raised due to sample matrix interferences*

Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

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Salt Lake City, Utah
84115

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Fax (801) 263-8687
e-mail awal@awal-labs com

Client	Wasatch Integrated WMD	Contact	John Watson
Project.	3rd Qtr '12 Ash		
Lab Sample ID·	1210097-003		
Client Sample ID·	AS-12-03-03		
Collection Date	9/19/2012 1027h		
Received Date:	10/5/2012 1323h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 10/8/2012 1700h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0100	< 0 0100	*
Barium	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0500	**0 437**	
Cadmium	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 00250	**0 102**	
Chromium	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0100	**0 0246**	
Lead	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0500	**0 103**	
Mercury	mg/L	10/9/2012 1310h	10/10/2012 1036h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	10/10/2012 910h	10/15/2012 1928h	SW6020A	0 0100	< 0 0100	*
Silver	mg/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0100	< 0 0100	*

* - *The reporting limits were raised due to sample matrix interferences*

Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

INORGANIC ANALYTICAL REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

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Salt Lake City, Utah
84115

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Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail awal@awal-labs com

Client	Wasatch Integrated WMD	Contact	John Watson
Project·	4TH Qtr '12 Ash		
Lab Sample ID	1212454-013		
Client Sample ID	AS-12-04-13		
Collection Date	12/15/2012 1330h		
Received Date.	12/20/2012 1000h		

Analytical Results — TCLP METALS Method 1311

TCLP Prep Date 12/26/2012 1500h

Compound	Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	12/27/2012 1405h	12/28/2012 1310h	SW6020A	0 0100	< 0 0100	
Barium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0500	**0.376**	
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 00250	**0 555**	
Chromium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0100	< 0 0100	
Lead	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0500	**0 174**	
Mercury	mg/L	12/27/2012 1445h	12/28/2012 825h	SW7470A	0 0100	< 0 0100	*
Selenium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0100	< 0 0100	
Silver	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0100	< 0 0100	

* *The reporting limits were raised due to sample matrix interferences*

Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

ATTACHMENT V

LABORATORY QUALITY CONTROL REPORTS

American West Analytical Laboratories

emailed 7/30/12 HC

WORK ORDER Summary

Work Order: **1207205**

Page 1 of 3 7/16/2012

Client: Wasatch Integrated WMD

Client ID: WAS130 Contact: John Watson

Project: 2nd Qtr' 12 Ash Samples QC Level: LEVEL II+ WO Type: Standard

Comments: QC 2+ Include copy of TCLP log with final report ,

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
1207205-001A	AS-12-02-01	6/19/2012 1100h	7/13/2012 0810h	7/30/2012	Solid	1311LM-PR	☐	TCLPFridge 1
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-002A	AS-12-02-02	6/19/2012 0921h				1311LM-PR	☐	tCLPFridge-met/hg
						3005A-TCLP-PR	☐	tCLPFridge-met/hg
						6010C-TCLP	☑	tCLPFridge-met/hg
	SEL Analytes: CR							
						6020-TCLP	☑	tCLPFridge-met/hg
	SEL Analytes: AS BA CD PB SE AG							
						HG-TCLP-7470A	☐	tCLPFridge-met/hg
						HG-TCLP-PR	☐	tCLPFridge-met/hg
1207205-003A	AS-12-02-03	7/11/2012 1214h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-004A	AS-12-02-04	6/19/2012 0930h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-005A	AS-12-02-05	7/11/2012 1236h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-006A	AS-12-02-06	6/19/2012 0952h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							

FOR LABORATORY USE ONLY [fill out on page 1] %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK AE HOK MA

WORK ORDER Summary

Work Order: **1207205**

Page 2 of 3 7/16/2012

Client: Wasatch Integrated WMD

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
1207205-007A	AS-12-02-07	7/11/2012 1317h	7/13/2012 0810h	7/30/2012	Solid	1311LM-PR	☐	TCLPFridge 1
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-008A	AS-12-02-08	6/19/2012 1012h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-009A	AS-12-02-09	7/11/2012 1356h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-010A	AS-12-02-10	6/19/2012 1030h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes. CD PB							
1207205-011A	AS-12-02-11	7/11/2012 1419h				1311LM-PR	☐	tCLPFridge-met/hg & voc
						1311ZHE-PR	☐	tCLPFridge-met/hg & voc
						3005A-TCLP-PR	☐	tCLPFridge-met/hg & voc
						6010C-TCLP	☑	tCLPFridge-met/hg & voc
	SEL Analytes. CR							
						6020-TCLP	☑	tCLPFridge-met/hg & voc
	SEL Analytes: AS BA CD PB SE AG							
						8260-W-TCLP	☑	tCLPFridge-met/hg & voc
						HG-TCLP-7470A	☐	tCLPFridge-met/hg & voc
						HG-TCLP-PR	☐	tCLPFridge-met/hg & voc

FOR LABORATORY USE ONLY [fill out on page 1] %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____

WORK ORDER Summary

Work Order: **1207205**

Client: Wasatch Integrated WMD

 7/16/2012

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
1207205-012A	AS-12-02-12	7/11/2012 1434h	7/13/2012 0810h	7/30/2012	Solid	1311LM-PR	☐	TCLPFridge 1
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-013A	AS-12-02-13	7/11/2012				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-014A	AS-12-02-14					1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1207205-015A	AS-12-02-15	6/19/2012 0921h				1311LM-PR	☐	tCLPFridge-met/hg
						3005A-TCLP-PR	☐	tCLPFridge-met/hg
						6010C-TCLP	☑	tCLPFridge-met/hg
	SEL Analytes: CR							
						6020-TCLP	☑	tCLPFridge-met/hg
	SEL Analytes AS BA CD PB SE AG							
						HG-TCLP-7470A	☐	tCLPFridge-met/hg
						HG-TCLP-PR	☐	tCLPFridge-met/hg

FOR LABORATORY USE ONLY [fill out on page 1] %M ☐ RT ☐ CN ☐ TAT ☐ QC ☐ HOK_____ HOK_____ HOK_____

J. mailed report w/ TCLP log 10/2/12 HC

American West Analytical Laboratories

WORK ORDER Summary

Work Order: 1209297

 9/18/2012

Client: Wasatch Integrated WMD

Client ID: WAS130 **Contact:** John Watson

Project: 2nd Qtr (A) '12 **QC Level:** LEVEL II+ **WO Type** Standard

Comments: QC 2+ Include copy of TCLP log with final report ,

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage	
1209297-001A	AS-12-02A-1	9/12/2012 0820h	9/18/2012 1324h	10/2/2012	Soil	1311LM-PR	[ ]	TCLPFridge	1
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes CD PB								
1209297-002A	AS-12-02A-2	9/13/2012 0848h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: CD PB								
1209297-003A	AS-12-02A-3	9/13/2012 1001h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: CD PB								
1209297-004A	AS-12-02A-4	9/13/2012 0922h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: CD PB								
1209297-005A	AS-12-02A-5	9/13/2012 1032h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: AS BA CD CR PB SE AG								
						HG-TCLP-7470A	[ ]	TCLPFridge	
						HG-TCLP-PR	[ ]	TCLPFridge	
1209297-006A	AS-12-02A-6	9/13/2012 1117h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes CD PB								
1209297-007A	AS-12-02A-7	9/13/2012 1155h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes. CD PB								
1209297-008A	AS-12-02A-8	9/13/2012 1227h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	

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WORK ORDER Summary

Work Order: 1209297

 9/18/2012

Client: Wasatch Integrated WMD

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage	
1209297-008A	AS-12-02A-8	9/13/2012 1227h	9/18/2012 1324h	10/2/2012	Soil	6020-TCLP	[x]	TCLPFridge	1
	SEL Analytes CD PB								
1209297-009A	AS-12-02A-9	9/13/2012 1259h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: CD PB								
1209297-010A	AS-12-02A-10	9/13/2012 1320h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes. CD PB								
1209297-011A	AS-12-02A-11	9/13/2012 1413h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes CD PB								
1209297-012A	AS-12-02A-12	9/13/2012 1450h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: CD PB								
1209297-013A	AS-12-02A-13	9/13/2012 1515h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: AS BA CD CR PB SE AG								
						HG-TCLP-7470A	[ ]	TCLPFridge	
						HG-TCLP-PR	[ ]	TCLPFridge	
1209297-014A	AS-12-02A-14	9/13/2012 1553h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: CD PB								
1209297-015A	AS-12-02A-15	9/13/2012 1630h				1311LM-PR	[ ]	TCLPFridge	
						3005A-TCLP-PR	[ ]	TCLPFridge	
						6020-TCLP	[x]	TCLPFridge	
	SEL Analytes: AS BA CD CR PB SE AG								
						HG-TCLP-7470A	[ ]	TCLPFridge	
						HG-TCLP-PR	[ ]	TCLPFridge	

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Include w/ report w/ TCLP Logbook 10/12/12 HC

WORK ORDER Summary

Work Order: 1210097
Page 1 of 2 10/5/2012

Client: Wasatch Integrated WMD
Client ID: WAS130 **Contact:** John Watson
Project: 3rd Qtr '12 Ash **QC Level:** LEVEL II+ **WO Type:** Standard
Comments: QC 2+ Include copy of TCLP log with final report ,

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
1210097-001A	AS-12-03-01	9/19/2012 0913h	10/5/2012 1323h	10/19/2012	Solid	1311LM-PR	☐	TCLPFridge 1
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-002A	AS-12-03-02	9/19/2012 0948h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-003A	AS-12-03-03	9/19/2012 1027h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: AS BA CD CR PB SE AG							
						HG-TCLP-7470A	☐	TCLPFridge
						HG-TCLP-PR	☐	TCLPFridge
1210097-004A	As-12-03-04	9/19/2012 1105h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-005A	As-12-03-05	9/19/2012 1130h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-006A	As-12-03-06	9/19/2012 1225h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-007A	As-12-03-07	9/19/2012 1257h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-008A	As-12-03-08	9/19/2012 1325h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge

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WORK ORDER Summary

Work Order: 1210097
Page 2 of 2 10/5/2012

Client: Wasatch Integrated WMD

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
1210097-008A	As-12-03-08	9/19/2012 1325h	10/5/2012 1323h	10/19/2012	Solid	6020-TCLP	☑	TCLPFridge 1
	SEL Analytes: CD PB							
1210097-009A	As-12-03-09	9/19/2012 1430h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-010A	AS-12-03-10	9/19/2012 1505h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: AS BA CD CR PB SE AG							
						HG-TCLP-7470A	☐	TCLPFridge
						HG-TCLP-PR	☐	TCLPFridge
1210097-011A	As-12-03-11	9/19/2012 1533h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-012A	As-12-03-12	9/19/2012 1604h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-013A	As-12-03-13	9/19/2012 1632h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-014A	As-12-03-14	9/19/2012 1700h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1210097-015A	AS-12-03-15	9/19/2012 1730h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: AS DA CD CR PB SE AG							
						HG-TCLP-7470A	☐	TCLPFridge
						HG-TCLP-PR	☐	TCLPFridge

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HC

WORK ORDER Summary

Work Order: 1212454
Page 1 of 2 12/28/2012

Client: Wasatch Integrated WMD
Client ID: WAS130 **Contact:** John Watson
Project: 4TH Qtr '12 Ash **QC Level** II+ **WO Type:** Standard
Comments: QC 2+ Include copy of TCLP log with final report ,

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
1212454-001A	AS-12-04-1	12/15/2012 0730h	12/20/2012 1000h	1/7/2013	Solid	1311LM-PR	☐	TCLPFridge 1
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1212454-002A	AS-12-04-2	12/15/2012 0800h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1212454-003A	AS-12-04-3	12/15/2012 0830h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1212454-004A	AS-12-04-4	12/15/2012 0900h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1212454-005A	AS-12-04-5	12/15/2012 0930h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1212454-006A	AS-12-04-6	12/15/2012 1000h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1212454-007A	AS-12-04-7	12/15/2012 1030h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: AS BA CD CR PB SE AG							
						HG-TCLP-7470A	☐	TCLPFridge
						HG-TCLP-PR	☐	TCLPFridge
1212454-008A	AS-12-04-8	12/15/2012 1100h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge

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WORK ORDER Summary

Work Order: 1212454
Page 2 of 2 12/28/2012

Client: Wasatch Integrated WMD

Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
1212454-008A	AS-12-04-8	12/15/2012 1100h	12/20/2012 1000h	1/7/2013	Solid	6020-TCLP	☑	TCLPFridge 1
	SEL Analytes: CD PB							
1212454-009A	AS-12-04-9	12/15/2012 1130h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1212454-010A	AS-12-04-10	12/15/2012 1200h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1212454-011A	AS-12-04-11	12/15/2012 1230h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes CD PB							
1212454-012A	AS-12-04-12	12/15/2012 1300h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1212454-013A	AS-12-04-13	12/15/2012 1330h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: AS BA CD CR PB SE AG							
						HG-TCLP-7470A	☐	TCLPFridge
						HG-TCLP-PR	☐	TCLPFridge
1212454-014A	AS-12-04-14	12/15/2012 1400h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes: CD PB							
1212454-015A	AS-12-04-15	12/15/2012 1430h				1311LM-PR	☐	TCLPFridge
						3005A-TCLP-PR	☐	TCLPFridge
						6020-TCLP	☑	TCLPFridge
	SEL Analytes AS BA CD CR PB SE AG							
						HG-TCLP-7470A	☐	TCLPFridge
						HG-TCLP-PR	☐	TCLPFridge

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METHOD BLANKS

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Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr' 12 Ash Samples

Contact: John Watson
Dept: ME
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-19923	Chromium	mg/L	SW6010C	< 0 0100				-				7/17/2012 1348h
MB-20075	Chromium	mg/L	SW6010C	< 0 0100				-				7/26/2012 1603h
MB-TCLP-19919	Chromium	mg/L	SW6010C	< 0 0100				-				7/17/2012 1451h
MB-TCLP-20054	Chromium	mg/L	SW6010C	< 0 0100				-				7/26/2012 1652h
MB-TCLP-20058	Chromium	mg/L	SW6010C	< 0 0100				-				7/26/2012 1657h
MB-19923	Arsenic	mg/L	SW6020A	< 0 0100				-				7/17/2017 1303h
MB-19923	Barium	mg/L	SW6020A	< 0 0500				-				7/17/2012 1303h
MB-19923	Cadmium	mg/L	SW6020A	< 0 00250				-				7/17/2012 1303h
MB-19923	Lead	mg/L	SW6020A	< 0 0500				-				7/17/2012 1303h
MB-19923	Selenium	mg/L	SW6020A	< 0 0100				-				7/17/2012 1303h
MB-19923	Silver	mg/L	SW6020A	< 0 0100				-				7/17/2012 1303h
MB-20075	Arsenic	mg/L	SW6020A	< 0 0100				-				7/26/2012 2232h
MB-20075	Barium	mg/L	SW6020A	< 0 0500				-				7/26/2012 2232h
MB-20075	Cadmium	mg/L	SW6020A	< 0 00250				-				7/26/2012 2232h
MB-20075	Lead	mg/L	SW6020A	< 0 0500				-				7/27/2012 1444h
MB-20075	Selenium	mg/L	SW6020A	< 0 0100				-				7/26/2012 2232h
MB-20075	Silver	mg/L	SW6020A	< 0 0100				-				7/26/2012 2232h
MB-TCLP-19919	Arsenic	mg/L	SW6020A	< 0 0100				-				7/17/2012 1307h
MB-TCLP-19919	Barium	mg/L	SW6020A	< 0 0500				-				7/17/2012 1307h
MB-TCLP-19919	Cadmium	mg/L	SW6020A	< 0 00250				-				7/17/2012 1307h
MB-TCLP-19919	Lead	mg/L	SW6020A	< 0 0500				-				7/17/2012 1307h
MB-TCLP-19919	Selenium	mg/L	SW6020A	< 0 0100				-				7/17/2012 1307h

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Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr' 12 Ash Samples

Contact: John Watson
Dept: ME
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-TCLP-19919	Silver	mg/L	SW6020A	< 0 0100				-				7/17/2012 1307h
MB-TCLP-20054	Arsenic	mg/L	SW6020A	< 0 0100				-				7/26/2012 2241h
MB-TCLP-20054	Barium	mg/L	SW6020A	< 0 0500				-				7/26/2012 2241h
MB-TCLP-20054	Cadmium	mg/L	SW6020A	< 0 00250				-				7/26/2012 2241h
MB-TCLP-20054	Lead	mg/L	SW6020A	< 0 0500				-				7/27/2012 1450h
MB-TCLP-20054	Selenium	mg/L	SW6020A	< 0 0100				-				7/26/2012 2241h
MB-TCLP-20054	Silver	mg/L	SW6020A	< 0 0100				-				7/26/2012 2241h
MB-TCLP-20055	Arsenic	mg/L	SW6020A	< 0 0100				-				7/26/2012 2236h
MB-TCLP-20055	Barium	mg/L	SW6020A	< 0 0500				-				7/26/2012 2236h
MB-TCLP-20055	Cadmium	mg/L	SW6020A	< 0 00250				-				7/26/2012 2236h
MB-TCLP-20055	Lead	mg/L	SW6020A	< 0 0500				-				7/27/2012 1447h
MB-TCLP-20055	Selenium	mg/L	SW6020A	< 0 0100				-				7/26/2012 2236h
MB-TCLP-20055	Silver	mg/L	SW6020A	< 0 0100				-				7/26/2012 2236h
MB-TCLP-20058	Arsenic	mg/L	SW6020A	< 0 0100				-				7/26/2012 2246h
MB-TCLP-20058	Barium	mg/L	SW6020A	< 0 0500				-				7/26/2012 2246h
MB-TCLP-20058	Cadmium	mg/L	SW6020A	< 0 00250				-				7/26/2012 2246h
MB-TCLP-20058	Lead	mg/L	SW6020A	< 0 0500				-				7/27/2012 1453h
MB-TCLP-20058	Selenium	mg/L	SW6020A	< 0 0100				-				7/26/2012 2246h
MB-TCLP-20058	Silver	mg/L	SW6020A	< 0 0100				-				7/26/2012 2246h
MB-19936	Mercury	mg/L	SW7470A	< 0 00100				-				7/17/2012 804h
MB-20064	Mercury	mg/L	SW7470A	< 0 00100				-				7/25/2012 841h
MB-TCLP-19919	Mercury	mg/L	SW7470A	< 0 00100				-				7/17/2012 831h

All analyses applicable to the CWA SDWA and RCRA are performed in accordance to NELAC protocols Pertinent sampling information is located on the attached COC This report is provided for the exclusive use of the addressee Privileges of subsequent use of the name of this company or any member of its staff or reproduction of this report in connection with the advertisement promotion or sale of any product or process or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science

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Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr 12 Ash Samples

Contact: John Watson
Dept: ME
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-TCLP-19925	Mercury	mg/L	SW7470A	< 0 00100				-				7/17/2012 832h
MB-TCLP-20054	Mercury	mg/L	SW7470A	< 0 00100				-				7/25/2012 902h
MB-TCLP-20058	Mercury	mg/L	SW7470A	< 0 00100				-				7/25/2012 904h

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Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr 12 Ash Samples

Contact: John Watson
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB VOC 071612A	1,1-Dichloroethene	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	1,2-Dichloroethane	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	1,4-Dichlorobenzene	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	2-Butanone	mg/L	SW8260C	< 0 0100				-				7/16/2012 920h
MB VOC 071612A	Benzene	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	Carbon tetrachloride	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	Chlorobenzene	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	Chloroform	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	Tetrachloroethene	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	Trichloroethene	mg/L	SW8260C	< 0 00200				-				7/16/2012 920h
MB VOC 071612A	Vinyl chloride	mg/L	SW8260C	< 0 00100				-				7/16/2012 920h
MB VOC 071612A	Surr 1,2-Dichloroethane-d4	%REC	SW8260C	0 0540	0 05000		108	76-138				7/16/2012 920h
MB VOC 071612A	Surr 4-Bromofluorobenzene	%REC	SW8260C	0 0525	0 05000		105	77-121				7/16/2012 920h
MB VOC 071612A	Surr Dibromofluoromethane	%REC	SW8260C	0 0547	0 05000		109	67-128				7/16/2012 920h
MB VOC 071612A	Surr Toluene-d8	%REC	SW8260C	0 0488	0 05000		97 7	81-135				7/16/2012 920h
MB-TCLP-19916	1,1-Dichloroethene	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h
MB-TCLP-19916	1,2-Dichloroethane	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h
MB-TCLP-19916	1,4-Dichlorobenzene	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h
MB-TCLP-19916	2-Butanone	mg/L	SW8260C	< 0 200				-				7/16/2012 1619h
MB-TCLP-19916	Benzene	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h
MB-TCLP-19916	Carbon tetrachloride	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h
MB-TCLP-19916	Chlorobenzene	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h
MB-TCLP-19916	Chloroform	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h

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Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr' 12 Ash Samples

Contact: John Watson
Dept: MSVOA
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-TCLP-19916	Tetrachloroethene	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h
MB-TCLP-19916	Trichloroethene	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619h
MB-TCLP-19916	Vinyl chloride	mg/L	SW8260C	< 0 0200				-				7/16/2012 1619h
MB-TCLP-19916	Surr 1,2-Dichloroethane-d4	%REC	SW8260C	1 14	1 000		114	76-138				7/16/2012 1619h
MB-TCLP-19916	Surr 4-Bromofluorobenzene	%REC	SW8260C	1 11	1 000		111	77-121				7/16/2012 1619h
MB-TCLP-19916	Surr Dibromofluoromethane	%REC	SW8260C	1 14	1 000		114	67-128				7/16/2012 1619h
MB-TCLP-19916	Surr Toluene-d8	%REC	SW8260C	1 01	1 000		101	81-135				7/16/2012 1619h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1209297
Project: 2nd Qtr (A) '12

Contact: John Watson
Dept: ME
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-21329	Arsenic	mg/L	SW6020A	< 0 0100				-				10/1/2012 1234h
MB-21329	Barium	mg/L	SW6020A	< 0 0500				-				9/29/2012 2050h
MB-21329	Cadmium	mg/L	SW6020A	< 0 00250				-				9/29/2012 2050h
MB-21329	Chromium	mg/L	SW6020A	< 0 0100				-				9/29/2012 2050h
MB-21329	Lead	mg/L	SW6020A	< 0 0500				-				9/29/2012 2050h
MB-21329	Selenium	mg/L	SW6020A	< 0 0100				-				9/29/2012 2050h
MB-21329	Silver	mg/L	SW6020A	< 0 0100				-				9/29/2012 2050h
MB-TCLP-21312	Arsenic	mg/L	SW6020A	< 0 0100				-				10/1/2012 1238h
MB-TCLP-21312	Barium	mg/L	SW6020A	< 0 0500				-				9/29/2012 2057h
MB-TCLP-21312	Cadmium	mg/L	SW6020A	< 0 00250				-				9/29/2012 2057h
MB-TCLP-21312	Chromium	mg/L	SW6020A	< 0 0100				-				9/29/2012 2057h
MB-TCLP-21312	Lead	mg/L	SW6020A	< 0 0500				-				9/29/2012 2057h
MB-TCLP-21312	Selenium	mg/L	SW6020A	< 0 0100				-				9/29/2012 2057h
MB-TCLP-21312	Silver	mg/L	SW6020A	< 0 0100				-				9/29/2012 2057h
MB-21319	Mercury	mg/L	SW7470A	< 0 00100				-				9/28/2012 1156h
MB-TCLP-21171	Mercury	mg/L	SW7470A	< 0 00100				-				9/28/2012 1216h

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Jose Rocha
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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1210097
Project: 3rd Qtr '12 Ash

Contact: John Watson
Dept: ME
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-21556	Arsenic	mg/L	SW6020A	< 0 0100				-				10/12/2012 2142h
MB-21556	Barium	mg/L	SW6020A	< 0 0500				-				10/12/2012 2142h
MB-21556	Cadmium	mg/L	SW6020A	< 0 00250				-				10/12/2012 2142h
MB-21556	Chromium	mg/L	SW6020A	< 0 0100				-				10/12/2012 2142h
MB-21556	Lead	mg/L	SW6020A	< 0 0500				-				10/12/2012 2142h
MB-21556	Selenium	mg/L	SW6020A	< 0 0100				-				10/15/2012 1906h
MB-21556	Silver	mg/L	SW6020A	< 0 0100				-				10/12/2012 2142h
MB-21584	Cadmium	mg/L	SW6020A	< 0 00250				-				10/12/2012 1531h
MB-21584	Lead	mg/L	SW6020A	< 0 0500				-				10/12/2012 1531h
MB-TCLP-21537	Arsenic	mg/L	SW6020A	< 0 0100				-				10/12/2012 2149h
MB-TCLP-21537	Barium	mg/L	SW6020A	< 0 0500				-				10/12/2012 2149h
MB-TCLP-21537	Cadmium	mg/L	SW6020A	< 0 00250				-				10/12/2012 2149h
MB-TCLP-21537	Chromium	mg/L	SW6020A	< 0 0100				-				10/12/2012 2149h
MB-TCLP-21537	Lead	mg/L	SW6020A	< 0 0500				-				10/12/2012 2149h
MB-TCLP-21537	Selenium	mg/L	SW6020A	< 0 0100				-				10/15/2012 1913h
MB-TCLP-21537	Silver	mg/L	SW6020A	< 0 0100				-				10/12/2012 2149h
MB-TCLP-21568	Cadmium	mg/L	SW6020A	< 0 00250				-				10/12/2012 1538h
MB-TCLP-21568	Lead	mg/L	SW6020A	< 0 0500				-				10/12/2012 1538h
MB-21544	Mercury	mg/L	SW7470A	< 0 00100				-				10/10/2012 1019h
MB-TCLP-21536	Mercury	mg/L	SW7470A	< 0 00100				-				10/10/2012 1047h
MB-TCLP-21537	Mercury	mg/L	SW7470A	< 0 00100				-				10/10/2012 1048h

U - This flag indicates the compound was analyzed for but not detected above the MDL

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Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1212454
Project: 4TH Qtr '12 Ash

Contact: John Watson
Dept: ME
QC Type: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
MB-22899	Barium	mg/L	SW6020A	< 0 0500				-				12/27/2012 1909h
MB-22899	Cadmium	mg/L	SW6020A	< 0 00250				-				12/27/2012 1909h
MB-22899	Chromium	mg/L	SW6020A	< 0 0100				-				12/27/2012 1909h
MB-22899	Lead	mg/L	SW6020A	< 0 0500				-				12/27/2012 1909h
MB-22899	Selenium	mg/L	SW6020A	< 0 0100				-				12/27/2012 1909h
MB-22899	Silver	mg/L	SW6020A	< 0 0100				-				12/27/2012 1909h
MB-22899	Arsenic	mg/L	SW6020A	< 0 0100				-				12/28/2012 1238h
MB-TCLP-22895	Barium	mg/L	SW6020A	< 0 0500				-				12/27/2012 1914h
MB-TCLP-22895	Cadmium	mg/L	SW6020A	< 0 00250				-				12/27/2012 1914h
MB-TCLP-22895	Chromium	mg/L	SW6020A	< 0 0100				-				12/27/2012 1914h
MB-TCLP-22895	Lead	mg/L	SW6020A	< 0 0500				-				12/27/2012 1914h
MB-TCLP-22895	Selenium	mg/L	SW6020A	< 0 0100				-				12/27/2012 1914h
MB-TCLP-22895	Silver	mg/L	SW6020A	< 0 0100				-				12/27/2012 1914h
MB-TCLP-22895	Arsenic	mg/L	SW6020A	< 0 0100				-				12/28/2012 1243h
MB-22901	Mercury	mg/L	SW7470A	< 0 00100				-				12/28/2012 813h
MB-TCLP-22895	Mercury	mg/L	SW7470A	< 0 00100				-				12/28/2012 833h

LABORATORY QUALITY CONTROL REPORTS

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr' 12 Ash Samples

Contact: John Watson
Dept: ME
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-19923	Chromium	mg/L	SW6010C	0 415	0 4000	0	104	80-120				7/17/2012 1352h
LCS-20075	Chromium	mg/L	SW6010C	0 444	0 4000	0	111	80-120				7/26/2012 1607h
LCS-19923	Arsenic	mg/L	SW6020A	0 439	0 4000	0	110	85-115				7/17/2012 1312h
LCS-19923	Barium	mg/L	SW6020A	0 412	0 4000	0	103	85-115				7/17/2012 1312h
LCS-19923	Cadmium	mg/L	SW6020A	0 410	0 4000	0	102	85-115				7/17/2012 1312h
LCS-19923	Lead	mg/L	SW6020A	0 420	0 4000	0	105	85-115				7/17/2012 1312h
LCS-19923	Selenium	mg/L	SW6020A	0 416	0 4000	0	104	85-115				7/17/2012 1312h
LCS-19923	Silver	mg/L	SW6020A	0 424	0 4000	0	106	85-115				7/17/2012 1312h
LCS-20075	Arsenic	mg/L	SW6020A	0 451	0 4000	0	113	85-115				7/26/2012 2250h
LCS-20075	Barium	mg/L	SW6020A	0 387	0 4000	0	96 7	85-115				7/26/2012 2250h
LCS-20075	Cadmium	mg/L	SW6020A	0 396	0 4000	0	98 9	85-115				7/26/2012 2250h
LCS-20075	Lead	mg/L	SW6020A	0 375	0 4000	0	93 9	85-115				7/27/2012 1457h
LCS-20075	Selenium	mg/L	SW6020A	0 415	0 4000	0	104	85-115				7/26/2012 2250h
LCS-20075	Silver	mg/L	SW6020A	0 409	0 4000	0	102	85-115				7/26/2012 2250h
LCS-19936	Mercury	mg/L	SW7470A	0 00329	0 003330	0	98 8	80-120				7/17/2012 805h
LCS-20064	Mercury	mg/L	SW7470A	0 00310	0 003330	0	93 0	80-120				7/25/2012 843h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr' 12 Ash Samples

Contact: John Watson
Dept: ME
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1207205-001AMS	Chromium	mg/L	SW6010C	0 396	0 4000	0 01120	96 1	75-125				7/17/2012 1412h
1207205-011AMS	Chromium	mg/L	SW6010C	0 426	0 4000	0	106	75-125				7/26/2012 1636h
1207205-001AMS	Arsenic	mg/L	SW6020A	0 469	0 4000	0 006307	116	75-125				7/17/2012 1335h
1207205-001AMS	Barium	mg/L	SW6020A	0 868	0 4000	0 4905	94 5	75-125				7/17/2012 1335h
1207205-001AMS	Cadmium	mg/L	SW6020A	0 470	0 4000	0 06034	103	75-125				7/17/2012 1335h
1207205-001AMS	Lead	mg/L	SW6020A	0 436	0 4000	0 01248	106	75-125				7/17/2012 1335h
1207205-001AMS	Selenium	mg/L	SW6020A	0 442	0 4000	0 006604	109	75-125				7/17/2012 1335h
1207205-001AMS	Silver	mg/L	SW6020A	0 407	0 4000	0	102	75-125				7/17/2012 1335h
1207205-011AMS	Arsenic	mg/L	SW6020A	0 499	0 4000	0 006099	123	75-125				7/26/2012 2355h
1207205-011AMS	Barium	mg/L	SW6020A	0 828	0 4000	0 4447	95 7	75-125				7/26/2012 2355h
1207205-011AMS	Cadmium	mg/L	SW6020A	0 751	0 4000	0 3567	98 5	75-125				7/26/2012 2355h
1207205-011AMS	Lead	mg/L	SW6020A	0 438	0 4000	0 07770	90 0	75-125				7/27/2012 1528h
1207205-011AMS	Selenium	mg/L	SW6020A	0 430	0 4000	0 007933	106	75-125				7/26/2012 2355h
1207205-011AMS	Silver	mg/L	SW6020A	0 396	0 4000	0	98 9	75-125				7/26/2012 2355h
1207205-002AMS	Mercury	mg/L	SW7470A	0 0350	0 03330	0	105	80-120				7/17/2012 813h
1207205-011AMS	Mercury	mg/L	SW7470A	0 0307	0 03330	0	92 2	80-120				7/25/2012 851h

All analyses applicable to the CWA SDWA and RCRA are performed in accordance to NELAC protocols Pertinent sampling information is located on the attached COC This report is provided for the exclusive use of the addressee Privileges of subsequent use of the name of this company or any member of its staff or reproduction of this report in connection with the advertisement promotion or sale of any product or process or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr 12 Ash Samples

Contact John Watson
Dept: ME
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1207205-001AMSD	Chromium	mg/L	SW6010C	0 389	0 4000	0 01120	94 5	75-125	1 61	20		7/17/2012 1416h
1207205-011AMSD	Chromium	mg/L	SW6010C	0 429	0 4000	0	107	75-125	0 645	20		7/26/2012 1640h
1207205-001AMSD	Arsenic	mg/L	SW6020A	0 470	0 4000	0 006307	116	75-125	0 338	20		7/17/2012 1340h
1207205-001AMSD	Barium	mg/L	SW6020A	0 858	0 4000	0 4905	91 8	75-125	1 22	20		7/17/2012 1340h
1207205-001AMSD	Cadmium	mg/L	SW6020A	0 463	0 4000	0 06034	101	75-125	1 69	20		7/17/2012 1340h
1207205-001AMSD	Lead	mg/L	SW6020A	0 426	0 4000	0 01248	104	75-125	2 27	20		7/17/2012 1340h
1207205-001AMSD	Selenium	mg/L	SW6020A	0 419	0 4000	0 006604	103	75-125	5 21	20		7/17/2012 1340h
1207205-001AMSD	Silver	mg/L	SW6020A	0 403	0 4000	0	101	75-125	1 05	20		7/17/2012 1340h
1207205-011AMSD	Arsenic	mg/L	SW6020A	0 488	0 4000	0 006099	120	75-125	2 22	20		7/27/2012 000h
1207205-011AMSD	Barium	mg/L	SW6020A	0 802	0 4000	0 4447	89 4	75-125	3 12	20		7/27/2012 000h
1207205-011AMSD	Cadmium	mg/L	SW6020A	0 741	0 4000	0 3567	96 2	75-125	1 26	20		7/27/2012 000h
1207205-011AMSD	Lead	mg/L	SW6020A	0 433	0 4000	0 07770	88 8	75-125	1 08	20		7/27/2012 1531h
1207205-011AMSD	Selenium	mg/L	SW6020A	0 414	0 4000	0 007933	102	75-125	3 71	20		7/27/2012 000h
1207205-011AMSD	Silver	mg/L	SW6020A	0 391	0 4000	0	97 6	75-125	1 25	20		7/27/2012 000h
1207205-002AMSD	Mercury	mg/L	SW7470A	0 0345	0 03330	0	104	80-120	1 44	20		7/17/2012 814h
1207205-011AMSD	Mercury	mg/L	SW7470A	0 0317	0 03330	0	95 3	80-120	3 24	20		7/25/2012 853h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr 12 Ash Samples

Contact: John Watson
Dept: MSVOA
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS VOC 071612	1,1-Dichloroethene	mg/L	SW8260C	0 0272	0 02000	0	136	46-171				7/16/2012 842h
LCS VOC 071612	1,2-Dichloroethane	mg/L	SW8260C	0 0229	0 02000	0	114	60-137				7/16/2012 842h
LCS VOC 071612	Benzene	mg/L	SW8260C	0 0217	0 02000	0	108	62-127				7/16/2012 842h
LCS VOC 071612	Chlorobenzene	mg/L	SW8260C	0 0214	0 02000	0	107	63-140				7/16/2012 842h
LCS VOC 071612	Chloroform	mg/L	SW8260C	0 0240	0 02000	0	120	67-132				7/16/2012 842h
LCS VOC 071612	Trichloroethene	mg/L	SW8260C	0 0234	0 02000	0	117	54-152				7/16/2012 842h
LCS VOC 071612	Surr 1,2-Dichloroethane-d4	%REC	SW8260C	0 0541	0 05000		108	76-138				7/16/2012 842h
LCS VOC 071612	Surr 4-Bromofluorobenzene	%REC	SW8260C	0 0509	0 05000		102	77-121				7/16/2012 842h
LCS VOC 071612	Surr Dibromofluoromethane	%REC	SW8260C	0 0556	0 05000		111	67-128				7/16/2012 842h
LCS VOC 071612	Surr Toluene-d8	%REC	SW8260C	0 0493	0 05000		98 5	81-135				7/16/2012 842h

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Kyle F Gross
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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr' 12 Ash Samples

Contact: John Watson
Dept: MSVOA
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1207188-014AMS	1,1-Dichloroethene	mg/L	SW8260C	0 231	0 2000	0	116	51-152				7/16/2012 1231h
1207188-014AMS	1,2-Dichloroethane	mg/L	SW8260C	0 201	0 2000	0	100	39-162				7/16/2012 1231h
1207188-014AMS	Benzene	mg/L	SW8260C	0 186	0 2000	0	93 0	66-145				7/16/2012 1231h
1207188-014AMS	Chlorobenzene	mg/L	SW8260C	0 181	0 2000	0	90 7	63-140				7/16/2012 1231h
1207188-014AMS	Chloroform	mg/L	SW8260C	0 205	0 2000	0	103	50-146				7/16/2012 1231h
1207188-014AMS	Trichloroethene	mg/L	SW8260C	0 203	0 2000	0	101	61-153				7/16/2012 1231h
1207188-014AMS	Surr 1,2-Dichloroethane-d4	%REC	SW8260C	0 554	0 5000		111	72-151				7/16/2012 1231h
1207188-014AMS	Surr 4-Bromofluorobenzene	%REC	SW8260C	0 517	0 5000		103	80-128				7/16/2012 1231h
1207188-014AMS	Surr Dibromofluoromethane	%REC	SW8260C	0 557	0 5000		111	80-124				7/16/2012 1231h
1207188-014AMS	Surr Toluene-d8	%REC	SW8260C	0 486	0 5000		97 1	77-129				7/16/2012 1231h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1207205
Project: 2nd Qtr' 12 Ash Samples

Contact: John Watson
Dept: MSVOA
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1207188-014AMSD	1,1-Dichloroethene	mg/L	SW8260C	0 249	0 2000	0	125	51-152	7 53	25		7/16/2012 1250h
1207188-014AMSD	1,2-Dichloroethane	mg/L	SW8260C	0 205	0 2000	0	103	39-162	2 12	25		7/16/2012 1250h
1207188-014AMSD	Benzene	mg/L	SW8260C	0 196	0 2000	0	97 9	66-145	5 13	25		7/16/2012 1250h
1207188-014AMSD	Chlorobenzene	mg/L	SW8260C	0 190	0 2000	0	94 8	63-140	4 42	25		7/16/2012 1250h
1207188-014AMSD	Chloroform	mg/L	SW8260C	0 212	0 2000	0	106	50-146	3 07	25		7/16/2012 1250h
1207188-014AMSD	Trichloroethene	mg/L	SW8260C	0 209	0 2000	0	105	61-153	3 2	25		7/16/2012 1250h
1207188-014AMSD	Surr 1,2-Dichloroethane-d4	%REC	SW8260C	0 560	0 5000		112	72-151				7/16/2012 1250h
1207188-014AMSD	Surr 4-Bromofluorobenzene	%REC	SW8260C	0 526	0 5000		105	80-128				7/16/2012 1250h
1207188-014AMSD	Surr Dibromofluoromethane	%REC	SW8260C	0 567	0 5000		113	80-124				7/16/2012 1250h
1207188-014AMSD	Surr Toluene-d8	%REC	SW8260C	0 496	0 5000		99 3	77-129				7/16/2012 1250h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1209297
Project: 2nd Qtr (A) '12

Contact: John Watson
Dept: ME
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-21329	Arsenic	mg/L	SW6020A	0 405	0 4000	0	101	85-115				10/1/2012 1242h
LCS-21329	Barium	mg/L	SW6020A	0 389	0.4000	0	97 3	85-115				9/29/2012 2104h
LCS-21329	Cadmium	mg/L	SW6020A	0 387	0 4000	0	96 9	85-115				9/29/2012 2104h
LCS-21329	Chromium	mg/L	SW6020A	0 385	0 4000	0	96 4	85-115				9/29/2012 2104h
LCS-21329	Lead	mg/L	SW6020A	0 374	0 4000	0	93 6	85-115				9/29/2012 2104h
LCS-21329	Selenium	mg/L	SW6020A	0 382	0 4000	0	95 6	85-115				9/29/2012 2104h
LCS-21329	Silver	mg/L	SW6020A	0 385	0 4000	0	96 2	85-115				9/29/2012 2104h
LCS-21319	Mercury	mg/L	SW7470A	0 00336	0 003330	0	101	80-120				9/28/2012 1158h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1209297
Project: 2nd Qtr (A) '12

Contact: John Watson
Dept: ME
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1209297-001AMS	Arsenic	mg/L	SW6020A	0 430	0 4000	0 003473	107	75-125				10/1/2012 1250h
1209297-001AMS	Barium	mg/L	SW6020A	0 646	0 4000	0 2521	98 6	75-125				9/29/2012 2133h
1209297-001AMS	Cadmium	mg/L	SW6020A	0 416	0 4000	0 01795	99 6	75-125				9/29/2012 2133h
1209297-001AMS	Chromium	mg/L	SW6020A	0 384	0 4000	0 0005530	95 8	75-125				9/29/2012 2133h
1209297-001AMS	Lead	mg/L	SW6020A	0 378	0 4000	0 003877	93 6	75-125				9/29/2012 2133h
1209297-001AMS	Selenium	mg/L	SW6020A	0 411	0 4000	0 001508	102	75-125				9/29/2012 2133h
1209297-001AMS	Silver	mg/L	SW6020A	0 392	0 4000	0	98 1	75-125				9/29/2012 2133h
1209297-011AMS	Arsenic	mg/L	SW6020A	0 423	0 4000	0 003884	105	75-125				10/1/2012 1305h
1209297-011AMS	Barium	mg/L	SW6020A	0 712	0 4000	0 3591	88 3	75-125				9/29/2012 2319h
1209297-011AMS	Cadmium	mg/L	SW6020A	0 898	0 4000	0 5622	84 0	75-125				9/29/2012 2319h
1209297-011AMS	Chromium	mg/L	SW6020A	0 383	0 4000	0	95 7	75-125				9/29/2012 2319h
1209297-011AMS	Lead	mg/L	SW6020A	0 523	0 4000	0 1531	92 4	75-125				9/29/2012 2319h
1209297-011AMS	Selenium	mg/L	SW6020A	0 442	0 4000	0 001042	110	75-125				9/29/2012 2319h
1209297-011AMS	Silver	mg/L	SW6020A	0 384	0 4000	0	96 0	75-125				9/29/2012 2319h
1209297-005AMS	Mercury	mg/L	SW7470A	0 0343	0 03330	0	103	80-120				9/28/2012 1206h

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Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1209297
Project: 2nd Qtr (A) '12

Contact: John Watson
Dept: ME
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1209297-001AMSD	Arsenic	mg/L	SW6020A	0 425	0 4000	0 003473	105	75-125	1 11	20		10/1/2012 1254h
1209297-001AMSD	Barium	mg/L	SW6020A	0 635	0 4000	0 2521	95 7	75-125	1 79	20		9/29/2012 2140h
1209297-001AMSD	Cadmium	mg/L	SW6020A	0 405	0 4000	0 01795	96 8	75-125	2 79	20		9/29/2012 2140h
1209297-001AMSD	Chromium	mg/L	SW6020A	0 385	0 4000	0 0005530	96 1	75-125	0 348	20		9/29/2012 2140h
1209297-001AMSD	Lead	mg/L	SW6020A	0 367	0 4000	0 003877	90 7	75-125	3 06	20		9/29/2012 2140h
1209297-001AMSD	Selenium	mg/L	SW6020A	0 401	0 4000	0 001508	99 9	75-125	2 44	20		9/29/2012 2140h
1209297-001AMSD	Silver	mg/L	SW6020A	0 386	0 4000	0	96 6	75-125	1 56	20		9/29/2012 2140h
1209297-011AMSD	Arsenic	mg/L	SW6020A	0 421	0 4000	0 003884	104	75-125	0 503	20		10/1/2012 1309h
1209297-011AMSD	Barium	mg/L	SW6020A	0 696	0 4000	0 3591	84 2	75-125	2 28	20		9/29/2012 2347h
1209297-011AMSD	Cadmium	mg/L	SW6020A	0 895	0 4000	0 5622	83 3	75-125	0 306	20		9/29/2012 2347h
1209297-011AMSD	Chromium	mg/L	SW6020A	0 407	0 4000	0	102	75-125	6 09	20		9/29/2012 2347h
1209297-011AMSD	Lead	mg/L	SW6020A	0 482	0 4000	0 1434	84 6	75-125	4 63	20		10/1/2012 1309h
1209297-011AMSD	Selenium	mg/L	SW6020A	0 432	0 4000	0 001042	108	75-125	2 39	20		9/29/2012 2347h
1209297-011AMSD	Silver	mg/L	SW6020A	0 385	0 4000	0	96 2	75-125	0 182	20		9/29/2012 2347h
1209297-005AMSD	Mercury	mg/L	SW7470A	0 0339	0 03330	0	102	80-120	1 17	20		9/28/2012 1207h

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Kyle F Gross
Laboratory Director

Jose Rocha
QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1210097
Project: 3rd Qtr '12 Ash

Contact: John Watson
Dept: ME
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-21556	Arsenic	mg/L	SW6020A	0 399	0 4000	0	99 7	85-115				10/12/2012 2156h
LCS-21556	Barium	mg/L	SW6020A	0 392	0 4000	0	97 9	85-115				10/12/2012 2156h
LCS-21556	Cadmium	mg/L	SW6020A	0 385	0 4000	0	96 3	85-115				10/12/2012 2156h
LCS-21556	Chromium	mg/L	SW6020A	0 385	0 4000	0	96 3	85-115				10/12/2012 2156h
LCS-21556	Lead	mg/L	SW6020A	0 394	0 4000	0	98 6	85-115				10/12/2012 2156h
LCS-21556	Selenium	mg/L	SW6020A	0 367	0 4000	0	91 8	85-115				10/15/2012 1920h
LCS-21556	Silver	mg/L	SW6020A	0 388	0 4000	0	97 0	85-115				10/12/2012 2156h
LCS-21584	Cadmium	mg/L	SW6020A	0 385	0 4000	0	96 3	85-115				10/12/2012 1608h
LCS-21584	Lead	mg/L	SW6020A	0 391	0 4000	0	97 8	85-115				10/12/2012 1608h
LCS-21544	Mercury	mg/L	SW7470A	0 00302	0 003330	0	90 7	80-120				10/10/2012 1021h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1210097
Project: 3rd Qtr '12 Ash

Contact: John Watson
Dept: ME
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1210097-001AMS	Cadmium	mg/L	SW6020A	0 469	0 4000	0 05886	103	75-125				10/12/2012 1636h
1210097-001AMS	Lead	mg/L	SW6020A	0 422	0 4000	0 01279	102	75-125				10/12/2012 1636h
1210097-003AMS	Arsenic	mg/L	SW6020A	0 402	0 4000	0 0008420	100	75-125				10/12/2012 2253h
1210097-003AMS	Barium	mg/L	SW6020A	0 807	0 4000	0 4365	92 5	75-125				10/12/2012 2253h
1210097-003AMS	Cadmium	mg/L	SW6020A	0 481	0 4000	0 1019	94 7	75-125				10/12/2012 2253h
1210097-003AMS	Chromium	mg/L	SW6020A	0 373	0 4000	0 02456	87 2	75-125				10/12/2012 2253h
1210097-003AMS	Lead	mg/L	SW6020A	0 474	0 4000	0 1034	92 7	75-125				10/12/2012 2253h
1210097-003AMS	Selenium	mg/L	SW6020A	0 374	0 4000	0 002594	92 8	75-125				10/15/2012 1935h
1210097-003AMS	Silver	mg/L	SW6020A	0 384	0 4000	0	96 0	75-125				10/12/2012 2253h
1210097-013AMS	Cadmium	mg/L	SW6020A	0 456	0 4000	0 04629	102	75-125				10/12/2012 1823h
1210097-013AMS	Lead	mg/L	SW6020A	0 432	0 4000	0 02587	102	75-125				10/12/2012 1823h
1210097-003AMS	Mercury	mg/L	SW7470A	0 0303	0 03330	0	91 0	80-120				10/10/2012 1037h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1210097
Project: 3rd Qtr '12 Ash

Contact: John Watson
Dept: ME
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1210097-001AMSD	Cadmium	mg/L	SW6020A	0 452	0 4000	0 05886	98 3	75-125	3 75	20		10/12/2012 1643h
1210097-001AMSD	Lead	mg/L	SW6020A	0 418	0 4000	0 01279	101	75-125	0 914	20		10/12/2012 1643h
1210097-003AMSD	Arsenic	mg/L	SW6020A	0 416	0 4000	0 0008420	104	75-125	3 52	20		10/12/2012 2300h
1210097-003AMSD	Barium	mg/L	SW6020A	0 866	0 4000	0 4365	107	75-125	7 13	20		10/12/2012 2300h
1210097-003AMSD	Cadmium	mg/L	SW6020A	0 507	0 4000	0 1019	101	75-125	5 34	20		10/12/2012 2300h
1210097-003AMSD	Chromium	mg/L	SW6020A	0 384	0 4000	0 02456	89 8	75-125	2 74	20		10/12/2012 2300h
1210097-003AMSD	Lead	mg/L	SW6020A	0 511	0 4000	0 1034	102	75-125	7 57	20		10/12/2012 2300h
1210097-003AMSD	Selenium	mg/L	SW6020A	0 383	0 4000	0 002594	95 1	75-125	2 43	20		10/15/2012 1942h
1210097-003AMSD	Silver	mg/L	SW6020A	0 401	0 4000	0	100	75-125	4 35	20		10/12/2012 2300h
1210097-013AMSD	Cadmium	mg/L	SW6020A	0 450	0 4000	0 04629	101	75-125	1 44	20		10/12/2012 1830h
1210097-013AMSD	Lead	mg/L	SW6020A	0 423	0 4000	0 02587	99 2	75-125	2 18	20		10/12/2012 1830h
1210097-003AMSD	Mercury	mg/L	SW7470A	0 0303	0 03330	0	91 0	80-120	0	20		10/10/2012 1039h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1212454
Project: 4TH Qtr '12 Ash

Contact: John Watson
Dept: ME
QC Type: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
LCS-22899	Barium	mg/L	SW6020A	0 387	0 4000	0	96 8	85-115				12/27/2012 1920h
LCS-22899	Cadmium	mg/L	SW6020A	0 380	0 4000	0	95 0	85-115				12/27/2012 1920h
LCS-22899	Chromium	mg/L	SW6020A	0 353	0 4000	0	88 3	85-115				12/27/2012 1920h
LCS-22899	Lead	mg/L	SW6020A	0 369	0 4000	0	92 3	85-115				12/27/2012 1920h
LCS-22899	Selenium	mg/L	SW6020A	0 380	0 4000	0	94 9	85-115				12/27/2012 1920h
LCS-22899	Silver	mg/L	SW6020A	0 376	0 4000	0	94 0	85-115				12/27/2012 1920h
LCS-22899	Arsenic	mg/L	SW6020A	0 414	0 4000	0	103	85-115				12/28/2012 1247h
LCS-22901	Mercury	mg/L	SW7470A	0 00328	0 003330	0	98 5	80-120				12/28/2012 815h

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QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1212454
Project: 4TH Qtr '12 Ash

Contact: John Watson
Dept: ME
QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1212454-002AMS	Barium	mg/L	SW6020A	0 792	0 4000	0 3663	106	75-125				12/27/2012 1951h
1212454-002AMS	Cadmium	mg/L	SW6020A	0 990	0 4000	0 5364	113	75-125				12/27/2012 1951h
1212454-002AMS	Chromium	mg/L	SW6020A	0 355	0 4000	0	88 7	75-125				12/27/2012 1951h
1212454-002AMS	Lead	mg/L	SW6020A	0 659	0 4000	0 2509	102	75-125				12/27/2012 1951h
1212454-002AMS	Selenium	mg/L	SW6020A	0 398	0 4000	0 001860	99 1	75-125				12/27/2012 1951h
1212454-002AMS	Silver	mg/L	SW6020A	0 400	0 4000	0	100	75-125				12/27/2012 1951h
1212454-002AMS	Arsenic	mg/L	SW6020A	0 445	0 4000	0 006815	110	75-125				12/28/2012 1257h
1212454-007AMS	Mercury	mg/L	SW7470A	0 0343	0 03330	0	103	80-120				12/28/2012 821h

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QC SUMMARY REPORT

Client: Wasatch Integrated WMD
Lab Set ID: 1212454
Project: 4TH Qtr '12 Ash

Contact: John Watson
Dept: ME
QC Type: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1212454-002AMSD	Barium	mg/L	SW6020A	0 724	0 4000	0 3663	89 3	75-125	9 05	20		12/27/2012 1957h
1212454-002AMSD	Cadmium	mg/L	SW6020A	0 892	0 4000	0 5364	88 9	75-125	10 5	20		12/27/2012 1957h
1212454-002AMSD	Chromium	mg/L	SW6020A	0 346	0 4000	0	86 6	75-125	2 41	20		12/27/2012 1957h
1212454-002AMSD	Lead	mg/L	SW6020A	0 608	0 4000	0 2509	89 3	75-125	8 06	20		12/27/2012 1957h
1212454-002AMSD	Selenium	mg/L	SW6020A	0 393	0 4000	0 001860	97 8	75-125	1 25	20		12/27/2012 1957h
1212454-002AMSD	Silver	mg/L	SW6020A	0 361	0 4000	0	90 4	75-125	10 2	20		12/27/2012 1957h
1212454-002AMSD	Arsenic	mg/L	SW6020A	0 442	0 4000	0 006815	109	75-125	0 809	20		12/28/2012 1301h
1212454-007AMSD	Mercury	mg/L	SW7470A	0 0346	0 03330	0	104	80-120	0 871	20		12/28/2012 823h

ATTACHMENT VI

FIELD SAMPLING DOCUMENTATION

1st QUARTER EVENT

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 03
REDUCED BY: John Watson
DATE/TIME REDUCED: 7/6/12 12:19
TOTAL SAMPLE WEIGHT: 10 lbs Tare = 9 lbs
IRREDUCIBLE FRACTION WT: 1 lb

DESCRIPTION OF IRREDUCIBLE FRACTION: mouthguard, cans, wire, nails misc.

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min. minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS:

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 01
REDUCED BY: John Watson
DATE/TIME REDUCED: 6/19/12 11:00
TOTAL SAMPLE WEIGHT: 13 lbs Tare = 12 lbs
IRREDUCIBLE FRACTION WT: 1 lb

DESCRIPTION OF IRREDUCIBLE FRACTION: Cans.

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min. minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS:

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 04
REDUCED BY: John Watson
DATE/TIME REDUCED: 6/19/12 9:30
TOTAL SAMPLE WEIGHT: 13 lbs Tare = 12 lbs
IRREDUCIBLE FRACTION WT. 1 lb

DESCRIPTION OF IRREDUCIBLE FRACTION: Spring, tin can, bolt, spoon

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME. (15min. minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 02
REDUCED BY: John Watson
DATE/TIME REDUCED: 6/19/12 9:21
TOTAL SAMPLE WEIGHT: 11 lbs Tare = 9 lb
IRREDUCIBLE FRACTION WT: 2 lb

DESCRIPTION OF IRREDUCIBLE FRACTION: Hacksaw blade, tin cans, wire, small chain

JAW CRUSHER PASSES. (Three passes minimum): 3 Passes
MIXER TIME: (15min. minimum): 15 min
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 07
REDUCED BY: John Watson
DATE/TIME REDUCED: 7/11/12 13:17
TOTAL SAMPLE WEIGHT. 14 lbs
IRREDUCIBLE FRACTION WT 1 lb.

Tare = 13 lbs

DESCRIPTION OF IRREDUCIBLE FRACTION cans, nails, metal straps misc.

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min. minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN. Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 05
REDUCED BY: John Watson
DATE/TIME REDUCED: 7/11/12 12:36
TOTAL SAMPLE WEIGHT: 15 lbs.
IRREDUCIBLE FRACTION WT: 1/2 lb

Tare 14½ lbs

DESCRIPTION OF IRREDUCIBLE FRACTION cans, tin lids, nails/bolts wire, glass, misc

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 08
REDUCED BY: John Watson
DATE/TIME REDUCED: 6/19/12 10:12
TOTAL SAMPLE WEIGHT: 19 lbs
IRREDUCIBLE FRACTION WT: 2 lbs

Tare = 19 lb

DESCRIPTION OF IRREDUCIBLE FRACTION Tin cans, Bolt, etc

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min. minimum): 16
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 06
REDUCED BY: John Watson
DATE/TIME REDUCED: 6/19/12 9:52
TOTAL SAMPLE WEIGHT: 12 lbs
IRREDUCIBLE FRACTION WT: 1 lb

11 lb=Tare

DESCRIPTION OF IRREDUCIBLE FRACTION Cans, spoon, wire

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME. (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN. Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 11
REDUCED BY: John Watson
DATE/TIME REDUCED: 7/11/12 14:19
TOTAL SAMPLE WEIGHT. 8 lbs Tare 7 lbs
IRREDUCIBLE FRACTION WT· 1 lb

DESCRIPTION OF IRREDUCIBLE FRACTION cans, spade, clasp, wire battery, misc

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN· Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION AS-12-02- 09
REDUCED BY: John Watson
DATE/TIME REDUCED. 7/11/12 13:56
TOTAL SAMPLE WEIGHT· 12 lbs Tare = 11 lbs
IRREDUCIBLE FRACTION WT· 1 lb

DESCRIPTION OF IRREDUCIBLE FRACTION fork, cans, metal pieces, glass, misc

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 12
REDUCED BY: John Watson
DATE/TIME REDUCED: 7/11/12 14:34
TOTAL SAMPLE WEIGHT· 10 lbs 9 lbs = tare
IRREDUCIBLE FRACTION WT: 1 lb

DESCRIPTION OF IRREDUCIBLE FRACTION cans, metal pieces, wire plastic glove, misc

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02- 10
REDUCED BY. John Watson
DATE/TIME REDUCED: 6/19/12 10:30
TOTAL SAMPLE WEIGHT. 11 lbs Tare = 9 lbs
IRREDUCIBLE FRACTION WT: 2 lbs

DESCRIPTION OF IRREDUCIBLE FRACTION Tin cans, Bracket, wire

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN Yes

COMMENTS.

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 5-29-12 - Tuesday

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On											
7:08	(1)	2	3	4	5	6	7	8	9	10	11	12
7:40	1	(2)	3	4	5	6	7	8	9	10	11	12
10:00	1	2	(3)	4	5	6	7	8	9	10	11	12
10:48	1	2	3	(4)	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-02- 13
REDUCED BY:	John Watson
DATE/TIME REDUCED:	7/11/12 14:55
TOTAL SAMPLE WEIGHT:	10 lb (Tare = 7 lb)
IRREDUCIBLE FRACTION WT:	3 lb

DESCRIPTION OF IRREDUCIBLE FRACTION cans, nails, misc metal bracket

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	**MIXER TIME** (15mn minimum)	15
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	**SPLITTER TYPE** (usually Thief)	Thief
PHOTOGRAPH TAKEN	Yes		

COMMENTS _____

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 5-29-12 - Tuesday

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On											
11:30	1	2	3	4	(5)	6	7	8	9	10	11	12
12:44	1	2	3	4	5	(6)	7	8	9	10	11	12
13:24	1	2	3	4	5	6	(7)	8	9	10	11	12
14:53	1	2	3	4	5	6	7	(8)	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-02- 14
REDUCED BY:	John Watson
DATE/TIME REDUCED:	7/11/12 15:13
TOTAL SAMPLE WEIGHT.	11 lbs (Tare = 10 lb)
IRREDUCIBLE FRACTION WT·	1 lb

DESCRIPTION OF IRREDUCIBLE FRACTION. wire, can, misc metal misc

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	**MIXER TIME** (15mn minimum)	15
NUMBER OP SPLITS (with Thief)	2 Jars @ 16oz	**SPLITTER TYPE** (usually Thief)	Thief
PHOTOGRAPH TAKEN	Yes		

COMMENTS _____

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 5-31-12-Thurs

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:29	(1) 2 3 4 5 6 7 8 9 10 11 12
8:31	1 (2) 3 4 5 6 7 8 9 10 11 12
9:14	1 2 (3) 4 5 6 7 8 9 10 11 12
10:25	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 5-30-12-Wends

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:11	(1) 2 3 4 5 6 7 8 9 10 11 12
7:41	1 (2) 3 4 5 6 7 8 9 10 11 12
8:15	1 2 (3) 4 5 6 7 8 9 10 11 12
8:53	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 5-31-12-Thurs

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
11:18	1 2 3 4 (5) 6 7 8 9 10 11 12
13:15	1 2 3 4 5 (6) 7 8 9 10 11 12
15:07	1 2 3 4 5 6 (7) 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 5-30-12-Wends

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
9:46	1 2 3 4 (5) 6 7 8 9 10 11 12
10:28	1 2 3 4 5 (6) 7 8 9 10 11 12
11:08	1 2 3 4 5 6 (7) 8 9 10 11 12
12:43	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-4-12-monday

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:03	(1) 2 3 4 5 6 7 8 9 10 11 12
7:30	1 (2) 3 4 5 6 7 8 9 10 11 12
8:07	1 2 (3) 4 5 6 7 8 9 10 11 12
8:56	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-1-12 - Friday

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:23	(1) 2 3 4 5 6 7 8 9 10 11 12
7:55	1 (2) 3 4 5 6 7 8 9 10 11 12
8:40	1 2 (3) 4 5 6 7 8 9 10 11 12
9:10	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-4-12-monday

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
9:33	1 2 3 4 (5) 6 7 8 9 10 11 12
10:32	1 2 3 4 5 (6) 7 8 9 10 11 12
11:07	1 2 3 4 5 6 (7) 8 9 10 11 12
14:53	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-1-12 - Friday

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
9:45	1 2 3 4 (5) 6 7 8 9 10 11 12
10:17	1 2 3 4 5 (6) 7 8 9 10 11 12
10:48	1 2 3 4 5 6 (7) 8 9 10 11 12
12:30	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-6-12-Wends

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:07	(1) 2 3 4 5 6 7 8 9 10 11 12
7:48	1 (2) 3 4 5 6 7 8 9 10 11 12
8.35	1 2 (3) 4 5 6 7 8 9 10 11 12
9:18	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-5-12 Tuesday

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:07	(1) 2 3 4 5 6 7 8 9 10 11 12
7:38	1 (2) 3 4 5 6 7 8 9 10 11 12
8:17	1 2 (3) 4 5 6 7 8 9 10 11 12
9:10	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-6-12 -Wendsday

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
10:40	1 2 3 4 (5) 6 7 8 9 10 11 12
11:22	1 2 3 4 5 (6) 7 8 9 10 11 12
12:31	1 2 3 4 5 6 (7) 8 9 10 11 12
13:24	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-5-12- Tuesday

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
10:25	1 2 3 4 (5) 6 7 8 9 10 11 12
11:06	1 2 3 4 5 (6) 7 8 9 10 11 12
11:46	1 2 3 4 5 6 (7) 8 9 10 11 12
13:04	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

2nd QUARTER EVENT

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 03
REDUCED BY: John Watson
DATE/TIME REDUCED: 9-13-12 10:01
TOTAL SAMPLE WEIGHT: ~~35.0~~ 35.4 net 34.2
IRREDUCIBLE FRACTION WT: 1.2

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. metal Tin cans rocks glass

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 01
REDUCED BY: John Watson
DATE/TIME REDUCED: 9/12/02 - 8:20
TOTAL SAMPLE WEIGHT: 37.6 Net = 36.8
IRREDUCIBLE FRACTION WT: 0.8

DESCRIPTION OF IRREDUCIBLE FRACTION: misc metal (cans, keys, etc), rocks, glass

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 04
REDUCED BY: John Watson
DATE/TIME REDUCED: 9-13-12 9:22
TOTAL SAMPLE WEIGHT: 43.6 net 43.2
IRREDUCIBLE FRACTION WT: .4

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc metal (cans) rocks glass

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 02
REDUCED BY: John Watson
DATE/TIME REDUCED: 9-13-12 8:48
TOTAL SAMPLE WEIGHT: 32.8 net 32.2
IRREDUCIBLE FRACTION WT: .6

DESCRIPTION OF IRREDUCIBLE FRACTION: Tin cans rocks glass misc. metal

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME. (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A-07
REDUCED BY: John Watson
DATE/TIME REDUCED: 9-13-12 11:55
TOTAL SAMPLE WEIGHT: 34.8 net 21.4
IRREDUCIBLE FRACTION WT: 13.4

DESCRIPTION OF IRREDUCIBLE FRACTION: metal cans glass rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A-05
REDUCED BY: John Watson
DATE/TIME REDUCED: 9-13-12 1032
TOTAL SAMPLE WEIGHT: 32.8 net 31.2
IRREDUCIBLE FRACTION WT: 31.6

DESCRIPTION OF IRREDUCIBLE FRACTION: Metal, misc cans glass rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15mm minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS.

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A-08
REDUCED BY: John Watson
DATE/TIME REDUCED: 9-13-12 ~~1155~~ 12:27
TOTAL SAMPLE WEIGHT: 28.4 net 23.8
IRREDUCIBLE FRACTION WT: 4.6

DESCRIPTION OF IRREDUCIBLE FRACTION: metal cans glass rocks misc.

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15mm minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A-06
REDUCED BY: John Watson
DATE/TIME REDUCED: 9-13-12 11:17
TOTAL SAMPLE WEIGHT: 32.6 net 30.6
IRREDUCIBLE FRACTION WT: 2.0

DESCRIPTION OF IRREDUCIBLE FRACTION: metal cans glass brick rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15mm minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- (1

REDUCED BY: John Watson

DATE/TIME REDUCED: 9-13-12 1413 net 37.8

TOTAL SAMPLE WEIGHT: 42.4

IRREDUCIBLE FRACTION WT. 4.6

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal glass Rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 09

REDUCED BY: John Watson

DATE/TIME REDUCED: 9-13-12 12:59

TOTAL SAMPLE WEIGHT: 31.4 net 30.4

IRREDUCIBLE FRACTION WT: 1.0

DESCRIPTION OF IRREDUCIBLE FRACTION: Metal cans glass rocks misc.

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 16

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS.

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 12

REDUCED BY: John Watson

DATE/TIME REDUCED: 9-13-12 1450

TOTAL SAMPLE WEIGHT: 39.0 net 31.2

IRREDUCIBLE FRACTION WT: 7.8

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal glass Rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15mm minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 10

REDUCED BY: John Watson

DATE/TIME REDUCED: 9-13-12 13:20

TOTAL SAMPLE WEIGHT: 34.0 net 32.2

IRREDUCIBLE FRACTION WT: 1.8

DESCRIPTION OF IRREDUCIBLE FRACTION: Metal cans glass rocks misc.

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15mm minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 15

REDUCED BY: John Watson

DATE/TIME REDUCED: 9-13-12 1630

TOTAL SAMPLE WEIGHT: 344 net 28.2

IRREDUCIBLE FRACTION WT: ~~34~~ 6.2

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. metal Rocks Glass

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 13

REDUCED BY: John Watson

DATE/TIME REDUCED. 9-13-12 1515

TOTAL SAMPLE WEIGHT: 34.4 net 28.2

IRREDUCIBLE FRACTION WT: 6.2

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal Rocks glass

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS.

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-02A- 14

REDUCED BY: John Watson

DATE/TIME REDUCED: 9-13-12 1553

TOTAL SAMPLE WEIGHT: 34.0 net 28.6

IRREDUCIBLE FRACTION WT: 5.4

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. metal Rocks Glass

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS. (with Thief): 2 Jars @ 16oz

SPLITTER TYPE. (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-19-12 - Tues

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:12	(1) 2 3 4 5 6 7 8 9 10 11 12
7:42	1 (2) 3 4 5 6 7 8 9 10 11 12
8:14	1 2 (3) 4 5 6 7 8 9 10 11 12
8:44	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

#3

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-18-12 - Monday

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
1:07	(1) 2 3 4 5 6 7 8 9 10 11 12
7:40	1 (2) 3 4 5 6 7 8 9 10 11 12
8:09	1 2 (3) 4 5 6 7 8 9 10 11 12
8:43	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

#1

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6 19-12-Tues

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
10:46	1 2 3 4 (5) 6 7 8 9 10 11 12
11:21	1 2 3 4 5 (6) 7 8 9 10 11 12
12:55	1 2 3 4 5 6 (7) 8 9 10 11 12
13:47	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

#4

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-18-12- Mon.

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
9:15	1 2 3 4 (5) 6 7 8 9 10 11 12
10:19	1 2 3 4 5 (6) 7 8 9 10 11 12
10:46	1 2 3 4 5 6 (7) 8 9 10 11 12
12:27	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

#2

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-21-12 - Thurs

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
11:18	1 2 3 4 (5) 6 7 8 9 10 11 12
12:55	1 2 3 4 5 (6) 7 8 9 10 11 12
13:30	1 2 3 4 5 6 (7) 8 9 10 11 12
14:19	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

8

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-20-12-Wends

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:01	(1) 2 3 4 5 6 7 8 9 10 11 12
7:49	1 (2) 3 4 5 6 7 8 9 10 11 12
8:20	1 2 (3) 4 5 6 7 8 9 10 11 12
8:53	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

5

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-22-12 - FRi

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:14	(1) 2 3 4 5 6 7 8 9 10 11 12
7:44	1 (2) 3 4 5 6 7 8 9 10 11 12
8:16	1 2 (3) 4 5 6 7 8 9 10 11 12
8:46	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

9

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-21-12 — Thurs

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:12	(1) 2 3 4 5 6 7 8 9 10 11 12
8:01	1 (2) 3 4 5 6 7 8 9 10 11 12
8:30	1 2 (3) 4 5 6 7 8 9 10 11 12
8:59	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

7

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-25-12- Mon

Sample Taken In AM (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On											
12:49	1	2	3	4	(5)	6	7	8	9	10	11	12
13:19	1	2	3	4	5	(6)	7	8	9	10	11	12
13:54	1	2	3	4	5	6	(7)	8	9	10	11	12
14:49	1	2	3	4	5	6	7	(8)	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12

12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-22-12- FRI

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On											
11:02	1	2	3	4	(5)	6	7	8	9	10	11	12
12:30	1	2	3	4	5	(6)	7	8	9	10	11	12
13:09	1	2	3	4	5	6	(7)	8	9	10	11	12
14:54	1	2	3	4	5	6	7	(8)	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12

10

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date 6-25-12 - Mon

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On											
9:54	(1)	2	3	4	5	6	7	8	9	10	11	12
10:23	1	(2)	3	4	5	6	7	8	9	10	11	12
10:54	1	2	(3)	4	5	6	7	8	9	10	11	12
11:25	1	2	3	(4)	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12

11

3rd QUARTER EVENT

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 03

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 1027

TOTAL SAMPLE WEIGHT: 25.6 net 22.8

IRREDUCIBLE FRACTION WT: 2.8

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal cans rocks glass boalt nut

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 01

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 0913

TOTAL SAMPLE WEIGHT: 34.2 net 26.2

IRREDUCIBLE FRACTION WT: 8.0

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. metal cans glass rocks brick ~~rocks~~ valve

JAW CRUSHER PASSES. (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 04

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 1105

TOTAL SAMPLE WEIGHT. 30.4 net 27.8

IRREDUCIBLE FRACTION WT: 2.6

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. metal glass rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME. (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 02

REDUCED BY: Brent Larsen

DATE/TIME REDUCED. 9-19-12 0948

TOTAL SAMPLE WEIGHT: 30.2 net 26.0

IRREDUCIBLE FRACTION WT: 4.2

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. metal cans rocks glass

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 07

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 1257

TOTAL SAMPLE WEIGHT: 292 net 246

IRREDUCIBLE FRACTION WT: 46

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc: metal cans glass Rocks horse shoe

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 05

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9 19-12 1130

TOTAL SAMPLE WEIGHT: 344 net 272

IRREDUCIBLE FRACTION WT: 7.2

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. metal pot cans glass rock

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15mm minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 08

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 1325

TOTAL SAMPLE WEIGHT: 28.4 net 24.0

IRREDUCIBLE FRACTION WT: 4.4

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal/glass rocks cans

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 06

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 1235

TOTAL SAMPLE WEIGHT: 33.6 net 26.8

IRREDUCIBLE FRACTION WT: 6.8

DESCRIPTION OF IRREDUCIBLE FRACTION: metal cans cans glass rocks bricks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 11
REDUCED BY: Brent Larsen
DATE/TIME REDUCED: 9-19-12 1533
TOTAL SAMPLE WEIGHT: 35.0 net 30.2
IRREDUCIBLE FRACTION WT: 4.8

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal glass rocks cans

JAW CRUSHER PASSES. (Three passes minimum): 3 Passes
MIXER TIME. (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 09
REDUCED BY: Brent Larsen
DATE/TIME REDUCED: 9-19-12 1430
TOTAL SAMPLE WEIGHT: 29.2 net 21.8
IRREDUCIBLE FRACTION WT: 7.4

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal cans Glass rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 12
REDUCED BY: Brent Larsen
DATE/TIME REDUCED. 9-19-12 1604
TOTAL SAMPLE WEIGHT: 28.8 net 21.2
IRREDUCIBLE FRACTION WT: 7.6

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc Metal glass rocks cans

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 10
REDUCED BY: Brent Larsen
DATE/TIME REDUCED: 9-19-12 1605 net 28.0
TOTAL SAMPLE WEIGHT: 34.6
IRREDUCIBLE FRACTION WT: 6.6

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. metal cans glass rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes
MIXER TIME. (15min minimum): 15
NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz
SPLITTER TYPE. (usually Thief): Thief
PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 14

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 1730

TOTAL SAMPLE WEIGHT: ~~34~~ 346 net 260

IRREDUCIBLE FRACTION WT: 8.6

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal glass rock

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 13

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 1632

TOTAL SAMPLE WEIGHT: 346 net 260

IRREDUCIBLE FRACTION WT: 8.6

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc Metal can rocks glass

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-03- 14

REDUCED BY: Brent Larsen

DATE/TIME REDUCED: 9-19-12 1700

TOTAL SAMPLE WEIGHT: 41.0 net 34.8

IRREDUCIBLE FRACTION WT: 6.2

DESCRIPTION OF IRREDUCIBLE FRACTION: Misc. Metal glass rocks

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-26-12 - Thurs

Sample Taken In (AM) PM

Sample Identification _____ #3

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:31	(1) 2 3 4 5 6 7 8 9 10 11 12
8:06	1 (2) 3 4 5 6 7 8 9 10 11 12
8:35	1 2 (3) 4 5 6 7 8 9 10 11 12
9:11	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-25-12 — wends

Sample Taken In (AM) PM

Sample Identification _____ #1

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:25	(1) 2 3 4 5 6 7 8 9 10 11 12
8:14	1 (2) 3 4 5 6 7 8 9 10 11 12
8:52	1 2 (3) 4 5 6 7 8 9 10 11 12
9:31	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-26-12 - THURS

Sample Taken In (AM) (PM)

Sample Identification _____ #4

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
11:52	1 2 3 4 (5) 6 7 8 9 10 11 12
12:57	1 2 3 4 5 (6) 7 8 9 10 11 12
13:25	1 2 3 4 5 6 (7) 8 9 10 11 12
14:19	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-25-12 - wends

Sample Taken In (AM) (PM)

Sample Identification _____ #2

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
11:18	1 2 3 4 (5) 6 7 8 9 10 11 12
12:45	1 2 3 4 5 (6) 7 8 9 10 11 12
13:37	1 2 3 4 5 6 (7) 8 9 10 11 12
15:03	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-30-12 -- Mon

Sample Taken In (AM) PM

Sample Identification #7

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
7:42	(1) 2 3 4 5 6 7 8 9 10 11 12
8:09	1 (2) 3 4 5 6 7 8 9 10 11 12
8:48	1 2 (3) 4 5 6 7 8 9 10 11 12
9:20	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-27-12 - FRi

Sample Taken In (AM) PM

Sample Identification #5

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
7:22	(1) 2 3 4 5 6 7 8 9 10 11 12
7:52	1 (2) 3 4 5 6 7 8 9 10 11 12
8:29	1 2 (3) 4 5 6 7 8 9 10 11 12
9:44	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-30-12 - Mon

Sample Taken In (AM) (PM)

Sample Identification #8

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
9:56	1 2 3 4 (5) 6 7 8 9 10 11 12
10:29	1 2 3 4 5 (6) 7 8 9 10 11 12
11:05	1 2 3 4 5 6 (7) 8 9 10 11 12
12:25	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-27-12 - FRi

Sample Taken In (AM) (PM)

Sample Identification #6

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
10:45	1 2 3 4 (5) 6 7 8 9 10 11 12
11:34	1 2 3 4 5 (6) 7 8 9 10 11 12
12:08	1 2 3 4 5 6 (7) 8 9 10 11 12
12:46	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4 (August)

Date 8-1-12 - Wends

Sample Taken In (AM) PM

Sample Identification #11

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
7:14	(1) 2 3 4 5 6 7 8 9 10 11 12
7:47	1 (2) 3 4 5 6 7 8 9 10 11 12
8:19	1 2 (3) 4 5 6 7 8 9 10 11 12
8:53	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-31-12 - Tues

Sample Taken In (AM) PM

Sample Identification #9

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
7:08	(1) 2 3 4 5 6 7 8 9 10 11 12
7:42	1 (2) 3 4 5 6 7 8 9 10 11 12
8:28	1 2 (3) 4 5 6 7 8 9 10 11 12
9:03	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 8-1-12 - Wends

Sample Taken In (AM) (PM)

Sample Identification #12

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
10:40	1 2 3 4 (5) 6 7 8 9 10 11 12
13:02	1 2 3 4 5 (6) 7 8 9 10 11 12
14:01	1 2 3 4 5 6 (7) 8 9 10 11 12
14:44	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 7-31-12 - Tues

Sample Taken In (AM) (PM)

Sample Identification #10

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
10:27	1 2 3 4 (5) 6 7 8 9 10 11 12
11:03	1 2 3 4 5 (6) 7 8 9 10 11 12
12:41	1 2 3 4 5 6 (7) 8 9 10 11 12
13:18	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 8-2-12 - Thurs

Sample Taken In (AM) PM

Sample Identification #13

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
7:17	(1) 2 3 4 5 6 7 8 9 10 11 12
7:52	1 (2) 3 4 5 6 7 8 9 10 11 12
8:26	1 2 (3) 4 5 6 7 8 9 10 11 12
8:58	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 (3) 4

Date 8-2-12-Thurs

Sample Taken In (AM) (PM)

Sample Identification #14

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time	Haul Trip # That Sample Was Taken On
10:58	1 2 3 4 (5) 6 7 8 9 10 11 12
12:40	1 2 3 4 5 (6) 7 8 9 10 11 12
13:11	1 2 3 4 5 6 (7) 8 9 10 11 12
13:48	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

4th QUARTER EVENT

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION. AS-12-04-03

REDUCED BY: Jon Corbin

DATE/TIME REDUCED: 12/15/2012 0830

TOTAL SAMPLE WEIGHT: 25.2 LBS

IRREDUCIBLE FRACTION WT. 7 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION aerosol can, cans, wiring nails, batteries

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15min

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-04-01

REDUCED BY: Jon Corbin

DATE/TIME REDUCED 12/15/2012 0730

TOTAL SAMPLE WEIGHT: 29.4 LBS

IRREDUCIBLE FRACTION WT: 7.6 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION Cans, nails, batteries, brake pad, wiring spam

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15min

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE. (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-04-04

REDUCED BY: Jon Corbin

DATE/TIME REDUCED: 12/15/2012 0900

TOTAL SAMPLE WEIGHT: 28.6 LBS

IRREDUCIBLE FRACTION WT: 7.6 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION cans, battery, wiring, Rotor, stripping material

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15min

NUMBER OF SPLITS (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-04-02

REDUCED BY. Jon Corbin

DATE/TIME REDUCED: 12/15/2012 0800

TOTAL SAMPLE WEIGHT: 36.2 LBS

IRREDUCIBLE FRACTION WT. 10 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION Cans, wiring, Filter, bolt

JAW CRUSHER PASSES (Three passes minimum): 3 Passes

MIXER TIME (15min minimum): 15min

NUMBER OF SPLITS. (with Thief): 2 Jars @ 16oz

SPLITTER TYPE (usually Thief): Thief

PHOTOGRAPH TAKEN: Yes

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-04-07
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED:	12/15/2012 1030
TOTAL SAMPLE WEIGHT:	37.8 LBS
IRREDUCIBLE FRACTION WT:	5.8 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION: nails, cans, battery, wiring

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME (15min minimum)	15min
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	SPLITTER TYPE (usually Thief)	Thief
PHOTOGRAPH TAKEN	Yes		

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION.	AS-12-04-05
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED.	12/15/2012 0930
TOTAL SAMPLE WEIGHT:	30.6 LBS
IRREDUCIBLE FRACTION WT:	6.2 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION: cans, battery, metal rods, nails, staples

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME (15min minimum)	15min
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	SPLITTER TYPE (usually Thief)	Thief
PHOTOGRAPH TAKEN.	Yes		

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION.	AS-12-04-08
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED:	12/15/2012 1100
TOTAL SAMPLE WEIGHT	27.2 LBS
IRREDUCIBLE FRACTION WT:	7.4 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION: cans, nails, brake pad, bracket, battery

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME (15min minimum)	15min
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	SPLITTER TYPE (usually Thief)	Thief
PHOTOGRAPH TAKEN.	Yes		

COMMENTS.

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION·	AS-12-04-06
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED:	12/15/12 1000
TOTAL SAMPLE WEIGHT:	32.4 LBS
IRREDUCIBLE FRACTION WT.	8.2 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION. cans, batteries, spoon, wiring

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME (15min minimum)	15min
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	SPLITTER TYPE (usually Thief)	Thief
PHOTOGRAPH TAKEN.	Yes		

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-04-11
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED:	12/15/2012 1230
TOTAL SAMPLE WEIGHT:	33.8 LBS
IRREDUCIBLE FRACTION WT:	5.8 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION: Cans, Filter, nails, bolt, battery, wiring

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME (15mn minimum)	15min
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	SPLITTER TYPE (usually Thief)	Thief
PHOTOGRAPH TAKEN	Yes		

COMMENTS:

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-04-09
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED.	12/15/12 1130
TOTAL SAMPLE WEIGHT:	24.4 LBS
IRREDUCIBLE FRACTION WT:	8.2 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION: Fork, cans, wiring, nails, battery, Door knob, spindle, bracket material

JAW CRUSHER PASSES. (Three passes minimum)	3 Passes	MIXER TIME (15mn minimum)	15min
NUMBER OF SPLITS. (with Thief)	2 Jars @ 16oz	SPLITTER TYPE (usually Thief)	Thief
PHOTOGRAPH TAKEN.	Yes		

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-04-12
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED	12/15/2012 1300
TOTAL SAMPLE WEIGHT:	30.4 LBS
IRREDUCIBLE FRACTION WT:	7.4 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION: Cans, wiring, batteries, metal Frame

JAW CRUSHER PASSES. (Three passes minimum)	3 Passes	MIXER TIME (15mn minimum)	15min
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	SPLITTER TYPE (usually Thief)	Thief
PHOTOGRAPH TAKEN	Yes		

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-04-10
REDUCED BY.	Jon Corbin
DATE/TIME REDUCED.	12/15/2012 1200
TOTAL SAMPLE WEIGHT:	35.2 LBS
IRREDUCIBLE FRACTION WT:	7.8 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION: Cans, batteries, nails, aerosol can, wiring

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME: (15mn minimum)	15min
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	SPLITTER TYPE (usually Thief)	Thief
PHOTOGRAPH TAKEN	Yes		

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-04-13
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED:	12/15/2012 1330
TOTAL SAMPLE WEIGHT.	38 LBS
IRREDUCIBLE FRACTION WT.	6.4 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION Cans, wiring, bearing, battery

JAW CRUSHER PASSES (Three passes minimum)	3 Passes	**MIXER TIME.** (15min minimum)	15 min
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	**SPLITTER TYPE.** (usually Thief)	Thief
PHOTOGRAPH TAKEN.	Yes		

COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-04-14
REDUCED BY:	Jon Corbin
DATE/TIME REDUCED:	12/15/2012 1400.
TOTAL SAMPLE WEIGHT:	30.8 LBS
IRREDUCIBLE FRACTION WT:	6.2 LBS

DESCRIPTION OF IRREDUCIBLE FRACTION. Cans, batteries, wrench, Door latch, pipe, wiring

JAW CRUSHER PASSES. (Three passes minimum)	3 Passes	**MIXER TIME** (15min minimum)	15min
NUMBER OF SPLITS. (with Thief)	2 Jars @ 16oz	**SPLITTER TYPE** (usually Thief)	Thief
PHOTOGRAPH TAKEN.	Yes		

COMMENTS

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-2-12 - Tues

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:35	(1) 2 3 4 5 6 7 8 9 10 11 12
8:05	1 (2) 3 4 5 6 7 8 9 10 11 12
8:52	1 2 (3) 4 5 6 7 8 9 10 11 12
9:38	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-1-12 — Mon

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:00	(1) 2 3 4 5 6 7 8 9 10 11 12
7:37	1 (2) 3 4 5 6 7 8 9 10 11 12
8:10	1 2 (3) 4 5 6 7 8 9 10 11 12
8:43	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

(4)

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-2-12 - Tues

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
11:57	1 2 3 4 (5) 6 7 8 9 10 11 12
13:09	1 2 3 4 5 (6) 7 8 9 10 11 12
13:37	1 2 3 4 5 6 (7) 8 9 10 11 12
14:58	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

(2)

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-1-12 - Mon

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
9:11	1 2 3 4 (5) 6 7 8 9 10 11 12
9:50	1 2 3 4 5 (6) 7 8 9 10 11 12
11:18	1 2 3 4 5 6 (7) 8 9 10 11 12
12:41	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-4-12-Thurs

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:24	(1) 2 3 4 5 6 7 8 9 10 11 12
8:08	1 (2) 3 4 5 6 7 8 9 10 11 12
8:55	1 2 (3) 4 5 6 7 8 9 10 11 12
9:30	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-3-12-Wends

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:17	(1) 2 3 4 5 6 7 8 9 10 11 12
7:43	1 (2) 3 4 5 6 7 8 9 10 11 12
8:13	1 2 (3) 4 5 6 7 8 9 10 11 12
8:41	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

(8)

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-4-12-Thurs

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
11:11	1 2 3 4 (5) 6 7 8 9 10 11 12
13:18	1 2 3 4 5 (6) 7 8 9 10 11 12
13:48	1 2 3 4 5 6 (7) 8 9 10 11 12
15:08	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

(6)

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-3-12-Wends

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
11:32	1 2 3 4 (5) 6 7 8 9 10 11 12
12:22	1 2 3 4 5 (6) 7 8 9 10 11 12
13:03	1 2 3 4 5 6 (7) 8 9 10 11 12
14:15	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-8-12-Mon

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:14	(1) 2 3 4 5 6 7 8 9 10 11 12
7:40	1 (2) 3 4 5 6 7 8 9 10 11 12
8:16	1 2 (3) 4 5 6 7 8 9 10 11 12
8:43	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-5-12-FRI

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
7:18	(1) 2 3 4 5 6 7 8 9 10 11 12
7:48	1 (2) 3 4 5 6 7 8 9 10 11 12
8:32	1 2 (3) 4 5 6 7 8 9 10 11 12
9:21	1 2 3 (4) 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

12

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-8-12-Mon

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
11:33	1 2 3 4 (5) 6 7 8 9 10 11 12
13:26	1 2 3 4 5 (6) 7 8 9 10 11 12
13:57	1 2 3 4 5 6 (7) 8 9 10 11 12
15:05	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

10

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-5-12-FRI

Sample Taken In (AM) (PM)

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On
10:42	1 2 3 4 (5) 6 7 8 9 10 11 12
11:25	1 2 3 4 5 (6) 7 8 9 10 11 12
12:27	1 2 3 4 5 6 (7) 8 9 10 11 12
13:55	1 2 3 4 5 6 7 (8) 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12
	1 2 3 4 5 6 7 8 9 10 11 12

(13)

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 (4)

Date 10-9-12 - Tues

Sample Taken In (AM) PM

Sample Identification _____

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure _____

Time	Haul Trip # That Sample Was Taken On											
7:23	(1)	2	3	4	5	6	7	8	9	10	11	12
7:52	1	(2)	3	4	5	6	7	8	9	10	11	12
8:18	1	2	(3)	4	5	6	7	8	9	10	11	12
9:04	1	2	3	(4)	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12