



Division of Solid and Hazardous Waste

FEB 2 8 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

SOLID WASTE INCINERATOR ANNUAL REPORT

For Calendar year 2012

FEB 2 8 2013

Administra	tive Information (Plea	se enter all the information req	uested below - type or pri	nt legibly)
Facil	ity Name: Davis Energ	y Recovery Facility		
Facil	ity Mailing Address: P	.O. Box 900		
	City:I auton	(Number & Street, Box and/or R		
	County: Davis		_ZIP Coue. <u>64041</u> _Permit No :0423R1	
	County. <u>Davis</u>		_FeIIIIt No <u>9423K1</u>	· · · · · · · · · · · · · · · · · · ·
Own		. 1	N. (001) (14 5 (00	
	·	egrated Waste Phone	: No.: <u>(801)614-5600</u>	
	Mailing Address: P.	(A)	Poute)	
	City:Layton	State: Utah than Rich Tit	Zip Code:84041	
	Contact's Name:Na	than Rich Tit	tle:Executive Directo	or
	Contact's Mailing A	Address:Same as above		
	Phone No.:(801)61	4-5601 Contact's Ema	il Address:nathanr@	wiwmd.org
<u>Oper</u>		ly if the operator is not an employee		
	Name:	Phone	e No.:()	
	Mailing Address:			
	City	(Number & Street, Box and/or R State: <u>Utah</u> Tit	Route) Zin Code:	
	Contact's Name:	State. <u>Otali</u>	_ Zip Couc	
	Contact's Mailing A		.16	
	Dhona No :(Address:Contact's Ema	il Addrogg:	
	1 Hone 140(Contact's Ema	iii Addiess	
Facility Typ	oe and Status			
	ge Incinerator 🔀	Small Incinerator Capacity is 10 tons per day or less than 250 pounds per week		ot Required with capacity of 250 pound
⊠c	Currently in Operation		uring Year - Date: the date that all waste and ash were	
Waste Incir	ierated			
Tota	l tons received at facili	ity for incineration:		
Waste Type	,	Waste Origin	Total	Measuremen
	In-State	Out-of-State		Tons Cub
Municipal	120,700	3421	124121	Yard
ndustrial	541		541	🛛 🖂
C/D				
¹C/D w	raste includes construction/demol	ition, yard waste, dead animals, and o	other waste (see rule R315-301	-2(12))
Conversion	Factor Used			
				······································
1	None From rules	Site Specific (please list	factors used):	
i 🖾	None From rules	Site Specific (please list	t 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: Signature should be by an executive officer, general partner, proprietor, elected official, or 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



October 26, 2012

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

JAN (9)

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 <u>has</u> operated at a deficit greater than 5% or more of total annual revenue in <u>each</u> 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 yearend 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



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.
- 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.
- 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 Christenson, Palmer + Ambrose P.C.

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	<u>:-</u>	11,007,330	\$ 11,239,035
Energy Recovery Facility	<u>-</u>	22,000,000	4 11,233,033
Total Energy Recovery Facility Closure Costs	¢	90,211	\$ 92,110
Total Closure and Post Closure Costs	Š	11,097,541	\$ 11,331,145
iotal closule and Post Closule Costs	=	11,097,341	3 11,331,143
Permitted Landfill Capacity - Cubic Yards			
Permitted Unlined Cell Capacity		2,463,7 8 2	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	
% Remaining		0%	
% Used		100%	100%
Lined Cell	•		
Permitted		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	
Equipment - Plant			\$ 34,741,627

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
6 Used		85%		87%
Closure and Post Closure Liability				
Landfill Closure	\$	8,740,932	\$	8,924,929
% Used		<u>39%</u>		42%
Landfill Closure Liability (Lined Cells)	\$	3,408,963	\$	3,748,470
Landfill Post Closure	\$	2,266,398	\$	2,314,106
% Used (Total landfill)		<u>57%</u>		<u>59%</u>
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		<u>85%</u>		<u>879</u>
Energy Recovery Facility Closure Liability	\$	76,679	\$	80,136
Total Closure & Post Closure Liability	\$	4,777,490	\$	5,193,928
argest Area Closure Costs				
Jnlineds Cell (Closed)	\$	-	\$	-
Stage A Closure (Closed)	\$	-	\$	-
Stage B Closure	\$	3,8 8 2,118	\$	3,963,837
Stage C Closure	\$	4,858,814	\$	4,961,092
Post Closure	\$	2,266,398	<u>\$</u>	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		<u>43%</u>		<u>439</u>
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	<u>\$</u>	6,774,472
Remaining	\$	4,301,362	\$	4,556,673
Escrow Balance	<u>\$</u>	4,682,287	<u>\$</u>	5,176,264
Coverage Excess (Short)	\$	380,925	<u>\$</u>	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		1.3
	,	_	\$	
Annual Debt Service	\$			
Annual Debt Service Total Expenditures	\$ \$	16,259,372	\$	19,007,173

	Lendfili										District Wide				
													Waste		Percentage
	Yearly	MSW	MS	W	Yearly	Ash	Asi	n (Yes	irty {		& Ash	Processed	Waste	increase
Year	Placement	at Landfill	Cumu	lative	Place	ment	Cumul	ative	MSW	& Ash	Cum	ulative	at Plant	Disposed	in Tonnage
	_(ton/yr)	(cy/yr)	(ton)	(Cy)	(ton/yr)	(Cy/yr)	(ton)	(cy)	(ton/yr)	(cy/yr)	(ton)	(cy)	(ton/yr)	(ton/yr)	
1953	886	1,476	885	1,476			0	0	885	1,478					
1954	1,771	2,951	2,656	4,427	1		0	0	1,771	2,951					
1955	2,656	4,427	5,312	8,854	i	1	0	0	2,656	4,427	ı İ		1		
1956	3,542	5,903	8,854	14,767		1	0	0	3,542	5,903			ŀ		
1957	4,427	7,378	13,281	22,135	[1	ō	ŏ	4,427	7,378	i i				
1958	5,312	8,854	18,594	30,989			0	Ö	5,312	8,854			<u>'</u>		
1959	6,198	10,330	24,791	41,319	f	- 1	٥	0 1	6,198	10,330	1		ì .	1	ľ
1960	7,083	11,805	31,675	53,125	ļ		٥	0	7,083	11,805	l l		1	1	
1961	7,969	13,281	39,843	66,406	1		٥	0	7,989	13,281]		j	ļ	!
1962	8,854	14,757	48,698	81,163	1		0	0	8,854	14,757]		l	1	
1963	9,740	16,233	58,437	97,395	1		0	0	9,740	16,233	1		1	1	ļ
1964	10,625	17,708	69,062	115,103			0	0 [10,626	17,708	1		1	1	ĺ
1965	11,510	19,184	80,572	134,287			0	0	11,510	19,184	l l			l .	<u> </u>
1966	12,398	20,660	92,968	154,947	- 1		0	0	12,396	20,660	1		l .	i	ł
1967	13,281	22,135	106,249	177,082			0	0	13,281	22,135			1	1	1
1968	14,167	23,611	120,416	200 693			0	0	14,167	23,611	j j		1	J	ļ
1969	15,052	25,087	135,468	225,780	j		0	0	15,052	25,087	l l		l		
1970	15,937	26,562	151,405	252,342			0	0	15,937	26,562	1 1		l	1	1
1971	16,823	28,038	168,228	280,380	i		0	0	16,823	28,038	1 1		i	1	1
1972	17,708	29,514	185,936	309,894			0	0	17,708	29,514	1 1		l .	1	
1973	18,594	30,989	204,630	340,883			0	0	18,594	30,989	1 1		1	1	1
1974	19,479	32,465	224,009	373,348			0	0	19,479	32,465	l 1		ł	1	
1975	20,364	33,941	244,373	407,289			0	0	20,364	33,941	1 1		J	J	l .
1976	21,250	35,418	265,623	442,705			0	0	21,250	35,416	l l		1	ł	i
1977	22,135	36,692	287,758	479,597			0	0	22,135	36,892	1 1		1	ŀ	I
1978 1979	23,021 23,906	38,368 39,843	310,779 334,685	517,965 557,808			0	0	23,021 23,906	38,368 39,843	1 1		1	ì	ł
1980	24,791	41,319	359,476	599,127			0	ő	24,791	41,319	l l		ı	1	
1981	25,677	42,795	385,153	641,922			ı	ŏ	25,677	42,795	1 1		Į.	į.	1
1982	26,502	44,271	411,718	686,193			Ö	ŏ	26,562	44,271	1 I		1	1	1
1983	27,448	45,748	439,183	731,939			١٥	ŏ	27,448	45,746	1 1			ļ	
1984	28,333	47,222	467,496	779,161			اة	ō	28,333	47,222	1 1		1		1
1985	29,219	48,698	496,715	827,856			١ ٥	0	29,219	48,698	{ l			l .	
1986	30,104	50,173	526,819	878,032			0	0	30,104	50,173	1 1		l	ł	1
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	1	l
1988	31,875	53,125	589,683	982,805	27,147	18,098	28,889	19,259	59,022	71,223	818,572	1,002,064	103,616	ļ	į.
1989	32,760	54,600	622,443	1,037,405	30,509	20,406	59,498	39,665	63,369	75,008	681,941	1,077,071	111,549	1	ļ
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	ļ	l
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	[1
1992	35,418	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	1	1
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	l	ł
1994	45,425	80,708	810,763	1,351,272	32,483	21,655	207,629	138,419	60,908	102,364	1,018,392	1,601,651	125,463	173,868	Į
1995	72,761	121,268	863,524	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 2000	136,407	194,867	1,300,520	2,084,346	34,616	23,077	375,202	250,135	171,022	217,944	1,875,722	2,334,481	125,722	262,129	7%
_	122,377 148,999	174.824	1,422,897	2,259,170	34,944	23,296	410,146	273,431 293,738	157,321	198,120 233,161	1,833,043 2,012,500	2,532,601 2,765,762	130,046	252,423 262,586	4%
2001 2002	123,775	212,856 176,821	1,571,896	2,472,026 2,648,848	30,458 32,439	20,305 21,626	440,604 473,043	315,382	179,457 156,214	198,447	2,168,714	2,964,210	120,148	243,921	-7%
2002	120,117	171,598	1,815,788	2,820,443	33,174	22,118	508,217	337,478	153,291	193,712	2,322,005	3,157,921	116,690	238,807	-2%
2003	125,256	176,937	1,941,044	2,999,380	35,337	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	2,078,103	3,192,322	33,408	22,272	575,982	383,975	168,487	215,213	2,652,085	3,576,297	116,262	251,311	1%
2006	137,723	198,747	2,213,826	3,389,068	37,475	24,983	613,437	408,958	175,197	221,730	2,827,282	3,798,028	127,418	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	33,548	22,432	680,429	453,519	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	4,209,981	31,858	21,239	742,685	495,123	162,140	207,356	3,531,135	4,705,084	124,360	254,642	-3%
2011	128,501	183,718	2,917,051	4,393,677	33,716	22,477	778,400	517,600	162,316	206,193	3,693,451	4,911,277	127,666	258,259	1%
	70,857		2,987,908	4,494,901	14,530	9,687	790,930	527,286	85,386	110,910	3,778,838		66,924	127,780	-50%

Total Landfill:

8,530,669 = Permitted Design Capacity of Landfill

5,022,187 * Waste in Landfill 3,608,482 * Volume Remaining Total Site 59% * Percentage of Total Landfill Used

Unlined Cell:

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

Lined Cell:

6,088,887 = 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

Deeign Landfill Capacity = 8,630,669 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 1986, 1,847,908 cubic yards, it was assumed that half the waste received during 1998 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 distribiting the remaining volume, 1,270,563 cy, over the years 1953 through 1993 assuming an annual increase of 885 tons per year.

1200 tb/cy in place density 1952 through 1998

1400 lb/cy in place density thereafter

Diatriot Mido

Landfill Scale Report

For 1/1/2012 To 6/30/2012

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	,	Total		Cash Cu	stomers	-	Othe	r Waste Ty	/pes		Rec	ycled Mater	ials	=	Ash	
	· ,	Waste Received	Total Loads	Cash Waste Rec	Cash Loads	Non Process in	CD	Clean Fill	Green Waste	Tires	Mulch	Compost	Carpet Pad	Metals ,	Metal from Ash	Waste Landfilled
	Jan 2012	8,985.45	8,740	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	16,767.60	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	70,856.88
	District:	137,078.62	84,863	22,378.23	61,263					89 49		Ash	Landfilled		•	14,529.79
	a Barringo a	•		,								Tota	l Tons Rec	ycled		11,104.47
												Hous	sehold Haz	Waste	•	1.00
												Refr	igerators			255
												Batte	eries	-		911
												E-W	aste	•		148.42

Plant Scale Report

For 1/1/2012 To 6/30/2012

Run: 8/6/2012 5:05:56 PM

Total			Cash Cust	omers			Recy cled 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			-		•

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Wasatch Integrated Waste Manag

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Fixed Assets Inventory List

Asset ID: First to Last
Description: First to Last
Asset Type: First to Last Structure ID: First to Last

Class ID: BUILDINGS to BUILDINGS
Location ID: PLANT to PLANT Property Type: First to Last Quantity: First to Last

Cost Basis: First to Last Accum Depr: First to Last Net Book: First to Last Amort Code: First to Last

Pl in Svc Date: First to Last Acquire Date: First to Last

Sorted By: Asset ID

LANT OFFICE BUILDING	00010-1					
		PLANT	1	\$132,564.97	\$106,058.04	\$26,506.93
LANT MANAGERS OFFICE	00011-1	PLANT	1	\$15,903.10	\$15,903.10	\$0.00
LANT BUILDING	00012-1	PLANT	1	\$12,420,334.89	\$9,825,683.09	\$2,594,651.80
LANT CONTROL ROOM REMODEL	00012-2	PLANT	1	\$11,528.00	\$2,200.11	\$9,327.89
LANT MANAGER'S OFFICE REMODEL	00012-3	PLANT	1	\$2,969.00	\$211.33	\$2,757.67
LANT CONFERENCE ROOM REMODEL	00012-4	PLANT	1	\$13,984.75	\$867.58	\$13,117.17
LANT PURCHASING OFFICE IMPROVE	M 00040-1	PLANT	1	\$1,041.50	\$1,041.50	. \$0.00
TITIZENS FACILITY	00118-1	PLANT	1	\$570,003.61	\$423,703.02	\$146,300.59
TORAGE TRAILER AT PLANT	00137-1	PLANT	1	\$3,100.00	\$3,100.00	\$0.00
TITIZENS 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
NERGEN/FIRE CONTROL SYS-CONTRO	L 00337-1	PLANT	1	\$8,181.00	\$8,181.00	\$0.00
TORAGE 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	
HAZMAT FACILITY - PLANT	00560-1	PLANT	1	\$47,619.73	\$28,618.82	\$19,000.91
FRONT OF PLANT SEWERLINE	00614-1	PLANT	1		\$4,680.34	\$3,619.66
PLATFORM - BLOW DOWN VALVES	00615-1	PLANT	ī	\$9,305.46	\$9,305.46	\$0.00
FIRE CONTROL SYSTEM	00617-1	PLANT	ī		\$44,550.00	\$0.00
PLANT PATIO (DECK & AWNING)	00675-1	PLANT	1		\$3,298.58	-
PURCHASING OFFICE - PLANT	00834-1	PLANT	1		\$6,485.39	
PLANT BUILDING LENNOX KCA A/C U		PLANT	1	\$24,330.00		
		·			610 752 760 53	

26 Assets

26 \$13,705,281.92 \$10,757,760.53 \$2,947,521.39 ystem: 8/10/2012 1:14:49 PM ser Date: 8/10/2012

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Fixed Assets Inventory List

anges:

Asset ID: First to Last Description: First to Last Asset Type: First to Last

Asset Type: First to Last
Structure ID: First to Last
Class ID: WST/ENRGY EQUIP to WST/ENRGY EQUIP
Location ID: First to Last

Location ID First to Last Property Type: First to Last Quantity: First to Last

Cost Basis: First to Last
Accum Depr: First to Last
Net Book: First to Last
Amort Code: First to Last
Pl in Svc Date:First to Last

Acquire Date: First to Last

Forted By: Asset Description

SEN GRAPPLE BUCKET 01076-1 PLANT 1 \$56,985.00 \$2,304.54 \$66,680.44 BURNING EQUIPMENT 00015-1 PLANT 1 \$12,420,334.89 \$12,420,334.89 \$0.00 CIRSS ANALYZERS - BCHOCHEM ANALYZERS - B	Description	Asset ID	Location ID	Qty	Cost Basis	Accum Depr	Net Book
SULTING EQUIPMENT 0.0015-1 PLANT 1 \$12,420,334.89 \$12,420,334.89 \$0.00	ASH EXTRACTOR UPGRADE	00637-1	PLANT	1	\$485,489.50	\$376,214.47	\$109,275.03
CEMS ANALYZERS - ECHOCHEM ANALYT 00678-1 PLANT 1 \$1,63,962.08 \$112,016.91 \$51,945.2	ASH GRAPPLE BUCKET	01076-1	PLANT	1	\$68,985.00	\$2,304.54	\$66,680.46
CLAM SHELL ASH GRAPPLE 00024-1 PLANT 1 \$63,902.19 \$63,902.19 \$0.00 CRANG 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 \$14,450.00 PERSORATE SYSTEM UPGRADE 00473-1 PLANT 1 \$534,437.99 \$341,511.48 \$162,926.55 PLANT 1 \$73,03.68 \$73,03.68 \$0.00 PLANT PLANT 1 \$73,03.68 \$73,03.68 \$0.00 PLANT PLANT 1 \$28,450.00 \$28,450.00 \$0.00 PLANT PLANT 1 \$86,405.00 \$24,450.62 \$83,999.30 PLANT PLANT 1 \$86,905,653.31 \$4,525,230.22 \$2,380,423.00 PLANT PLANT 1 \$31,460.98 \$3,460.98 \$0.00 PLANT PLANT 1 \$31,460.98 \$3,460.98 \$0.00 PLANT PLANT 1 \$1,400.00 PLANT PLANT 1 \$1,500.00 PLANT PLANT 1 \$1,500.00 PLANT PLANT 1 \$1,500.00 PLANT 1 \$1,500.00 PLANT PLANT 1 \$1,	BURNING EQUIPMENT	00015-1	PLANT	1	\$12,420,334.89	\$12,420,334.89	\$0.00
CRAINE SCALE REBUILD 00406-1 PLANT 1 \$27,210.15 \$27,210.15 \$0.00 DURAG 290 OPACITY MONITORS & & B 00848-1 PLANT 1 \$33,730.00 \$19,279.94 \$14,450.00 PABEDGRATE SYSTEM UPGRADE 00473-1 PLANT 1 \$504,437.99 \$341,511.48 \$162,926.55 FIELD VIEW SYSTEM-SOFTWARE 00194-1 PLANT 1 \$504,437.99 \$341,511.48 \$162,926.55 FIELD VIEW SYSTEM-SOFTWARE 00194-1 PLANT 1 \$7,303.68 \$7,303.68 \$0.00 PARTER SYSTEM UPGRADE 0048-1 PLANT 1 \$28,6450.00 \$28,450.00 \$0.00 PARTER PRINCE PRIN	CEMS ANALYZERS - ECHOCHEM ANALYT	00678-1	PLANT	1	\$163,962.08	\$112,016.81	\$51,945.27
DURRAG 290 OPACITY MONITORS A & B 00848-1 FEEDGRATE SYSTEM UPGRADE 00473-1 FILANT 1 \$33,730.00 \$19,279.94 FILED VIEW SYSTEM-SOFTWARE 00194-1 FILANT 1 \$7,303.68 \$7,303.68 \$7,303.68 FURNACE CAMERAS 00248-1 FILANT 1 \$28,450.00 \$28,450.00 \$0.00 FURNACE CAMERAS 00248-1 FILANT 1 \$28,645.00 \$28,450.00 \$20,405.62 \$83,999.31 GSA SYSTEM (PLANT EMISSIONS SCU 00486-1 FILANT 1 \$66,905,653.31 \$4,525,230.22 \$2,380,423.00 HOIST CRANE - ATTACHED REFUSE CR 00407-1 FILANT 1 \$3,66,405.00 FURNACE CAMERAS 0018-1 FILANT 1 \$1,906.10 FURNACE CAMERAS 0018-1 FURNACE CAMERAS 001	CLAM SHELL ASH GRAPPLE	00024-1	PLANT	1	\$63,902.19	\$63,902.19	\$0.00
PEBLIGRATE SYSTEM UPGRADE	CRANE SCALE REBUILD	00406-1	PLANT	1	\$27,210.15	\$27,210.15	\$0.00
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 \$24,450.00 \$0.00 GEN BANK WET DRAG CONVEYOR 01079-1 PLANT 1 \$86,405.00 \$2,405.62 \$83,999.30 GSA SYSTEM (PLANT EMISSIONS SCHU 00486-1 PLANT 1 \$6,905.653.31 \$4,525,230.22 \$2,380,423.00 HOIST CRANE - ATTACHED REFUSE CX 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 GANGE PEEL CRANE GRAPPLE 00023-1 PLANT 1 \$15,269.37 \$15,269.37 \$0.00 GRANGE PEEL CRANE GRAPPLE - SN# 00391-1 PLANT 1 \$49,466.00 \$49,466.00 \$0.00 PATENN MOLD-SILDER CARRIAGE ROLLE 00491-1 PLANT 1 \$2,2484.56 \$2,848.56 \$0.00 PATENN MOLDS LOWER FORGATE TILE 8 00290-1 PLANT 1 \$2,2484.56 \$2,848.56 \$0.00 PATENN MOLDS LOWER FORGATE TILE 8 00300-1 PLANT 1 \$1,137.00 \$1,137.00 \$0.00 PATENN MOLD SUPER FORGATE TILE 8 00300-1 PLANT 1 \$2,2484.56 \$2,848.56 \$0.00 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,520.00 \$7,911.69 \$7,408.3 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.3 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.3 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.3 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATENN MOLD SOLO TEMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATENN MOLD SOLO TEMBLE GRATE 00047-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 \$1,500.00 \$0.00 \$1,500.00 \$0.00 \$1,500.00 \$0.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,500.00 \$1,50	DURAG 290 OPACITY MONITORS A & B	00848-1	PLANT	1	\$33,730.00	\$19,279.94	\$14,450.06
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 \$33,999.30 GEN BANK WET DRAG CONVEYOR 01079-1 PLANT 1 \$6,905,653.31 \$,255,230.22 \$2,380,423.00 HOIST CRANE - ATTACHER REFUSE CR 00407-1 PLANT 1 \$1,9060.10 \$1,500.00 HOIST CRANE - ATTACHER REFUSE CR 00407-1 PLANT 1 \$1,9060.10 \$19,060.10 \$0.00 LIST STATION 7 IMPROVEMENTS 00018-1 PLANT 1 \$15,269.37 \$15,269.37 \$0.00 LIST STATION 7 IMPROVEMENTS 00023-1 PLANT 1 \$15,269.37 \$15,269.37 \$0.00 CRANGE PEEL CRANE GRAPPLE 00023-1 PLANT 1 \$73,293.50 \$73,293.50 \$0.00 CRANGE PEEL CRANE GRAPPLE 00023-1 PLANT 1 \$73,293.50 \$73,293.50 \$0.00 CRANGE PEEL CRANE GRAPPLE 00491-1 PLANT 1 \$1,137.00 \$1,137.00 \$0.00 PATEN MOLD-SLIDER CARRIAGE ROLLE 00491-1 PLANT 1 \$1,137.00 \$1,137.00 \$0.00 PATEN MOLDS LOWER FUGRART TILE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.55 \$0.00 PATTERN MOLDS UPPER FUGRATE TILE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.55 \$0.00 PATTERN MOLD SUPPER FUGRATE TILE 8 00300-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.3 PATTERN MOLD SOT IST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.3 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.3 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$1,500.00 \$3,950.00 \$0.00 PLANT ASH BASIN 00027-1 PLANT 1 \$4,40.334.89 \$12,420.334.89 \$0.00 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$4,20.334.89 \$12,420.334.89 \$0.00 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$4,20.334.89 \$12,420.334.89 \$0.00 PRIANT STACK ANALYZIER 00014-1 PLANT 1 \$6,600.31 \$62,660.31 \$62,660.31 \$0.00 RAM WATER PUMP UPGRADE 00333-1 PLANT 1 \$62,5599.12 \$25,539.12 \$0.00 RAM WATER PUMP UPGRADE 00333-1 PLANT 1 \$4,405.00 \$4,450.00 \$4,450.00 \$1,400.00 SHAKER TABLES 00159-1 PLANT 1 \$1,400.00 \$4,450.00 \$4,450.00 \$1,400.00 SHAKER TABLES 00159-1 PLANT 1 \$9,439.60 \$1,700.90 \$9,700.00 SHAKER TABLES 00159-1 PLANT 1 \$9,439.60 \$1,700.00 \$4,450.00 \$7,700.90 SHAKER TABLES 00159-1 PLANT 1 \$9,439.60 \$1,700.00 \$4,450.00 \$7,700.90 SHAKER TABLES 00159-1 PLANT 1 \$9,439.60 \$1,700.00 \$4,450.00 \$7,700.90 SHAKER TABLES 00159-1 PLANT 1 \$9,	FEEDGRATE SYSTEM UPGRADE	00473-1	PLANT	1	\$504,437.99	\$341,511.48	\$162,926.51
GEN BANK WET DRAG CONVEYOR 01079-1 PLANT 1 \$86,405.00 \$2,405.62 \$83,999.30 GSA SYSTEM (PLANT EMISSIONS SCRU 00486-1 PLANT 1 \$6,905.653.31 \$4,525,230.22 \$2,380,423.00 LIFT STARNE - ATTECHED REFUSE CR 00407-1 PLANT 1 \$13,466.98 \$3,466.98 \$0.00 LIFT STATION 7 IMPROVEMENTS 00018-1 PLANT 1 \$19,060.10 \$19,060.10 \$0.00 LIFT STATION 7 IMPROVEMENTS 00290-1 PLANT 1 \$15,269.37 \$15,269.37 \$0.00 GRANGE PEEL CRANE GRAPPLE 00023-1 PLANT 1 \$73,293.50 \$73,293.50 \$0.00 GRANGE PEEL CRANE GRAPPLE - SNN 00391-1 PLANT 1 \$49,466.00 \$49,466.00 \$0.00 PATRN MOLD-SLIDER CRARIAGE ROLLE 00491-1 PLANT 1 \$1,137.00 \$1,137.00 \$0.00 PATRN MOLD-SLIDER FEGRATE TILE 8 00299-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATRN MOLDS LUWER FEGRATE TILE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATRN MOLD - TUMBLER GRATE 00047-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.30 PATTERN MOLD 5 FOR GRATES 00540-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.30 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$1,240.334.89 \$12,402.334.89 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PATTERN MOLD SOFT GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$41,844.84 \$4	FIELD VIEW SYSTEM-SOFTWARE	00194-1	PLANT	1	\$7,303.68	\$7,303.68	\$0.00
GSA SYSTEM (PLANT EMISSIONS SCRU 00486-1 PLANT 1 \$6,905,653.31 \$4,525,230.22 \$2,380,423.0 HOIST CRANE - ATTACHED REFUSE CR 00407-1 PLANT 1 \$3,460.98 \$3,460.98 \$0.00 LS-7 REPLACEMENT 00290-1 PLANT 1 \$1,9060.10 \$19,060.10 \$0.00 LS-7 REPLACEMENT 00290-1 PLANT 1 \$15,269.37 \$15,269.37 \$0.00 CRANGE PEEL CRANE GRAPPLE 00023-1 PLANT 1 \$49,466.00 \$49,466.00 \$40.00 PATRN MOLD-SLIDER CARRIAGE ROLLE 00491-1 PLANT 1 \$49,466.00 \$49,466.00 \$0.00 PATRN MOLD-SLIDER CARRIAGE ROLLE 00491-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATRN MOLDS LOWER FOGRATE TILE 8 00299-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATRN MOLDS UPPER FOGRATE TILE 8 00299-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATTERN MOLD TUMBLER GRAPPLE 00047-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.3 PATTERN MOLD SOZ7 IST ROW CARRIA 00255-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PATTERN MOLD SOZ7 IST ROW CARRIA 00255-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.00 PLANT ASH BASIN 00027-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.00 PLANT ASH BASIN 00027-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$1,2420,334.89 \$12,420,334.89 \$0.00 PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$62,660.31 \$0.00 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$41,578.00 \$44,578.00 \$0.00 PRAW WATER PUMP UPGRADE 00313-1 PLANT 1 \$44,578.00 \$44,578.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$44,578.00 \$44,578.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$44,656.00 \$44,656.00 \$44,656.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$44,656.00 \$44,656.00 \$44,656.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$44,656.00 \$44,656.00 \$44,656.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$44,656.00 \$44,656.00 \$44,656.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$44,656.00 \$44,656.00 \$44,656.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$44,656.00 \$44,656.00 \$6.00 \$67,708.99 \$77,708.99 \$77,708	FURNACE CAMERAS	00248-1	PLANT	1	\$28,450.00	\$28,450.00	\$0.00
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 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 GRANGE PEEL CRANE GRAPPLE 00023-1 PLANT 1 \$73,293.50 \$73,293.50 \$0.00 GRANGE 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 \$49,466.00 \$49,466.00 \$0.00 PATRN MOLDS LOWER FDGRATE TILE 8 00299-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATRN MOLDS LOWER FDGRATE TILE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATRN MOLDS UPPER FDGRATE TILE 8 00300-1 PLANT 1 \$1,320.00 \$7,911.69 \$7,408.3 PATTERN MOLD 8027 1ST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.00 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 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PLANT SHA BASIN 00027-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.00 PLANT SHA BASIN 00013-1 PLANT 1 \$48,282.32 \$48,283.32 \$0.00 PLANT SHACK ANALYZIER 00014-1 PLANT 1 \$48,280.32 \$48,283.32 \$0.00 PLANT SHACK ANALYZIER 00014-1 PLANT 1 \$48,280.32 \$48,283.32 \$0.00 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.00 PRIMARY AIR PANS 00360-1 PLANT 1 \$48,280.32 \$48,283.32 \$0.00 PRIMARY AIR PANS 00360-1 PLANT 1 \$44,578.00 \$4,578.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$4,578.00 \$4,578.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$4,450.00 \$4,450.00 \$4,578.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$4,450.00 \$4,450.00 \$4,578.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$4,450.00 \$4,450.00 \$4,578.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$4,450.00 \$4,450.00 \$4,576.00 \$0.00 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$4,450.00 \$4,450.00 \$4,450.00 \$0.00 SHAKER TABLES 00338-1 PLANT 1 \$4,450.00 \$4,450.00 \$4,450.00 \$0.00 SHAKER TABLES 003	GEN BANK WET DRAG CONVEYOR	01079-1	PLANT	1	\$86,405.00	\$2,405.62	\$83,999.38
LIFT STATION 7 IMPROVEMENTS 00018-1 PLANT 1 \$19,060.10 \$19,060.10 \$0.00	GSA SYSTEM (PLANT EMISSIONS SCRU	00486-1	PLANT	1	\$6,905,653.31	\$4,525,230.22	\$2,380,423.09
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 MOLD-SLIDER CARRIAGE ROLLE 00491-1 PLANT 1 \$2,848.56 \$2,848.56 \$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 \$22,848.56 \$2,848.56 \$0.00 PATTRN MOLD SUPPER FDGRATE TILE 8 00300-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.30 PATTERN MOLD 8027 1ST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$1,500.00 \$7,911.69 PATTERN MOLD FOR GRATES 00540-1 PLANT 1 \$31,500.00 \$3,950.00 \$0.00 PLANT ASH BASIN 00027-1 PLANT 1 \$31,500.00 \$3,950.00 \$0.00 PLANT FOLLUTION 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 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$25,783.25 \$51,783.25 \$51,783.25 \$0.00 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.00 SHAKER TABLES 00338-1 PLANT 1 \$44,656.00 \$4,578.00 \$0.00 SHAKER TABLES 00338-1 PLANT 1 \$44,656.00 \$4,656.00 \$0.00 STEAM STOP VALVES 00260-1 PLANT 1 \$44,450.00 \$4,450.00 \$0.00 STEAM STOP VALVES 00260-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.90 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.90 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.00	HOIST CRANE - ATTACHED REFUSE CR	00407-1	PLANT	1	\$3,460.98	\$3,460.98	\$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 \$1,171.00 \$1.137.00 \$0.00 PATRN MOLDS LOWER FIGRATE TILLE 8 00299-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATRN MOLDS UPER FIGRATE TILLE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.00 PATRN MOLDS UPER FIGRATE TILLE 8 00300-1 PLANT 1 \$1,500.00 \$7,911.69 \$7,408.30 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 3H BASIN 00027-1 PLANT 1 \$1,240,334.89 \$12,420,334.89 \$0.00 PRECIPITATION CONTROL UPGRADE 00313-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.00 PRECIPITATION CONTROL UPGRADE 00313-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.00 ROTARY SIRL FRANS PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.00 ROTARY SIRL FREDER (AIR LOCKS) 00394-1 PLANT 1 \$1,000.00 \$4,578.00 \$0.00 SHANT SHAKER TABLES 00338-1 PLANT 1 \$1,000.09 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$1,000.09 \$94,322.86 \$15,706.1 SHAKER TABLES 000360-1 PLANT 1 \$1,000.09 \$94,322.86 \$15,706.1 SHAKER TABLES 00038-1 PLANT 1 \$1,000.09 \$1,450.00 \$94,550.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.00 \$10.	LIFT STATION 7 IMPROVEMENTS	00018-1	PLANT	1	\$19,060.10	\$19,060.10	\$0.00
ORANGE PEEL CRANE GRAPPLE - SN# 00391-1 PLANT 1 \$49,466.00 \$49,466.00 \$0.0 PATRN MOLD-SLIDER CARRIAGE ROLLE 00491-1 PLANT 1 \$1,137.00 \$1,137.00 \$0.0 PATRN MOLDS LOWER FDGRATE TILE 8 00299-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.0 PATRN MOLDS UPPER FDGRATE TILE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.0 PATTERN MOLD - TUMBLER GRATE 00047-1 PLANT 1 \$15,320.00 \$7,911.69 \$7,408.3 PATTERN MOLD 8027 1ST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.0 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$1,500.00 \$3,950.00 \$0.0 PATTERN MOLDS FOR GRATES 00027-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.0 PLANT ASH BASIN 00027-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.0 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PRIMARY AIR FANS 00360-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR FANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FREDER (AIR LOCKS) 00394-1 PLANT 1 \$44,578.00 \$4,578.00 \$0.0 SHARR TABLES 00388-1 PLANT 1 \$1,0028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00388-1 PLANT 1 \$1,0028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00156-1 PLANT 1 \$1,0028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00388-1 PLANT 1 \$1,0028.99 \$94,322.86 \$15,706.01 SHAKER TABLES 00458-1 PLANT 1 \$1,0028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00458-1 PLANT 1 \$1,0028.99 \$94,322.86 \$15,706.01	LS-7 REPLACEMENT	00290-1	PLANT	1	\$15,269.37	\$15,269.37	\$0.00
PATRN MOLD-SLIDER CARRIAGE ROLLE 00491-1 PLANT 1 \$1,137.00 \$1,137.00 \$0.0 PATRN MOLDS LOWER FDGRATE TILE 8 00299-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.0 PATRN MOLDS UPPER FDGRATE TILE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.0 PATRN MOLD - TUMBLER GRATE 00047-1 PLANT 1 \$15,320.00 \$7,911.69 \$7,408.3 PATTERN MOLD 8027 1ST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.0 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.0 PLANT ASH BASIN 00027-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.0 PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$41,240,334.89 \$12,420,334.89 \$0.0 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR PANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$1,008.99 \$94,222.86 \$15,706.1 SHAKER TABLES 00195-1 PLANT 1 \$44,450.00 \$44,450.00 \$0.0 STARM STARM STOP VALVES 00260-1 PLANT 1 \$44,450.00 \$44,450.00 \$0.0 STARM STARM STOP VALVES 00260-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9	ORANGE PEEL CRANE GRAPPLE	00023-1	PLANT	1	\$73,293.50	\$73,293.50	\$0.00
PATRN MOLDS LOWER FDGRATE TILE 8 00299-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.0 PATRN MOLDS UPPER FDGRATE TILE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.0 PATTERN MOLD - TUMBLER GRATE 00047-1 PLANT 1 \$15,320.00 \$7,911.69 \$7,408.50 PATTERN MOLD 8027 1ST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.0 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$3,950.00 \$1,500.00 \$0.0 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.0 PLANT ASH BASIN 00027-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.0 PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$12,420,334.89 \$12,420,334.89 \$0.0 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PRIMARY AIR FANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$4,578.00 \$4,578.00 \$0.0 SHAKER TABLES 0038-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00195-1 PLANT 1 \$4,856.00 \$4,578.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,578.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,550.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	ORANGE PEEL CRANE GRAPPLE - SN#	00391-1	PL ANT	1	\$49,466.00	\$49,466.00	\$0.00
PATRN MOLDS UPPER FDGRATE TILE 8 00300-1 PLANT 1 \$2,848.56 \$2,848.56 \$0.0 PATTERN MOLD - TUMBLER GRATE 00047-1 PLANT 1 \$15,320.00 \$7,911.69 \$7,408.3 PATTERN MOLD 8027 1ST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.0 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.0 PLANT ASH BASIN 00027-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.0 PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$12,420,334.89 \$12,420,334.89 \$0.0 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR PANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 ROTARY SEAL FREEDER (AIR LOCKS) 00394-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FREEDER (AIR LOCKS) 00394-1 PLANT 1 \$10,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$10,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00195-1 PLANT 1 \$44,856.00 \$4,578.00 \$4,578.00 \$0.0 SHAKER TABLES 00195-1 PLANT 1 \$44,856.00 \$4,450.00 \$4,450.00 \$0.0 STAND STAND STAND STOP VALVES 00260-1 PLANT 1 \$44,850.00 \$4,450.00 \$4,450.00 \$4,578.00 \$0.0 STAND STAND STOP VALVES 00260-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$7,775,770.25 \$290,980.22 \$4844,790.0	PATRN MOLD-SLIDER CARRIAGE ROLLE	00491-1	PLANT	1	\$1,137.00	\$1,137.00	\$0.00
PATTERN MOLD - TUMBLER GRATE 00047-1 PLANT 1 \$15,320.00 \$7,911.69 \$7,408.3 PATTERN MOLD 8027 1ST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.0 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.0 PLANT ASH BASIN 00027-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.0 PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$12,420,334.89 \$12,420,334.89 \$0.0 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR FANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$1,0028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$1,0028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9	PATRN MOLDS LOWER FDGRATE TILE 8	00299-1	PLANT	1	\$2,848.56	\$2,848.56	\$0.00
PATTERN MOLD 8027 1ST ROW CARRIA 00256-1 PLANT 1 \$1,500.00 \$1,500.00 \$0.0 PATTERN MOLDS FOR GRATES 00540-1 PLANT 1 \$3,950.00 \$3,950.00 \$0.0 PLANT ASH BASIN 00027-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.0 PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$12,420,334.89 \$12,420,334.89 \$0.0 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PLANT STACK CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR FANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$4,578.00 \$4,578.00 \$0.0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$9,439.80 \$1,330.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,439.80 \$1,330.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,775,770.25 \$290,980.22 \$484,790.0	PATRN MOLDS UPPER FDGRATE TILE 8	00300-1	PLANT	1	\$2,848.56	\$2,848.56	\$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 FREDER (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 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00195-1 PLANT 1 \$1,736.31 \$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 \$9,439.80 \$1,730.89 \$7,708.90 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.90 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.00	PATTERN MOLD - TUMBLER GRATE	00047-1	PLANT	1	\$15,320.00	\$7,911.69	\$7,408.31
PLANT ASH BASIN 00027-1 PLANT 1 \$41,844.84 \$41,844.84 \$0.0 PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$12,420,334.89 \$12,420,334.89 \$0.0 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR FANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FREDER (AIR LOCKS) 00394-1 PLANT 1 \$4,578.00 \$4,578.00 \$0.0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0	PATTERN MOLD 8027 1ST ROW CARRIA	00256-1	PLANT	1	\$1,500.00	\$1,500.00	\$0.00
PLANT POLLUTION EQUIPMENT 00013-1 PLANT 1 \$12,420,334.89 \$12,420,334.89 \$0.0 PLANT STACK ANALYZIER 00014-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR PANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$4,578.00 \$4,578.00 \$0.0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9	PATTERN MOLDS FOR GRATES	00540-1	PL AN T	1	\$3,950.00	\$3,950.00	\$0.00
PLANT STACK ANALYZIER 00014-1 PLANT 1 \$48,282.32 \$48,282.32 \$0.0 PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR FANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$4,578.00 \$4,578.00 \$0.0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00168-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	PLANT ASH BASIN	00027-1	PLANT	1	\$41,844.84	\$41,844.84	\$0.00
PRECIPITATOR CONTROL UPGRADE 00313-1 PLANT 1 \$62,660.31 \$62,660.31 \$0.0 PRIMARY AIR FANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$4,578.00 \$4,578.00 \$0.0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,450.00 \$0.0 TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	PLANT POLLUTION EQUIPMENT	00013-1	PLANT	1	\$12,420,334.89	\$12,420,334.89	\$0.00
PRIMARY AIR FANS 00360-1 PLANT 1 \$51,783.25 \$51,783.25 \$0.0 RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$4,578.00 \$4,578.00 \$0.0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,450.00 \$0.0 TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	PLANT STACK ANALYZIER	00014-1	PLANT	1	\$48,282.32	\$48,282.32	\$0.00
RAW WATER PUMP UPGRADE 00294-1 PLANT 1 \$25,539.12 \$25,539.12 \$0.0 ROTARY SEAL FEEDER (AIR LOCKS) 00394-1 PLANT 1 \$4,578.00 \$4,578.00 \$0 0 SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,450.00 \$0.0 TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	PRECIPITATOR CONTROL UPGRADE	00313-1	PLANT	1	\$62,660.31	\$62,660.31	\$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 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,450.00 \$0.0 TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	PRIMARY AIR FANS	00360-1	PLANT	1	\$51,783.25	\$51,783.25	\$0.00
SHAKER TABLE REBUILD - 2006 SHUT 00754-1 PLANT 1 \$110,028.99 \$94,322.86 \$15,706.1 SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,450.00 \$0.0 TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	RAW WATER PUMP UPGRADE	00294-1	PLANT	1	\$25,539.12	\$25,539.12	\$0.00
SHAKER TABLES 00338-1 PLANT 1 \$19,736.31 \$19,736.31 \$0.0 SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,450.00 \$0.0 TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	ROTARY SEAL FREDER (AIR LOCKS)	00394-1	PLANT	1	\$4,578.00	\$4,578.00	\$0 00
SMART TRANSMITTERS 00195-1 PLANT 1 \$4,856.00 \$4,856.00 \$0.0 STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,450.00 \$0.0 TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	SHAKER TABLE REBUILD - 2006 SHUT	00754-1	PLANT	1	\$110,028.99	\$94,322.86	\$15,706.13
STEAM STOP VALVES 00260-1 PLANT 1 \$4,450.00 \$4,450.00 \$0.0 TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	SHAKER TABLES	00338-1	PLANT	1	\$19,736.31	\$19,736.31	\$0.00
TURBINE CENTRIFUGE 00168-1 PLANT 1 \$9,439.80 \$1,730.89 \$7,708.9 UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	SMART TRANSMITTERS	00195-1	PLANT	1	\$4,856.00	\$4,856.00	\$0.00
UNDERFIRE CONVEYOR A & B 00005-1 PLANT 1 \$775,770.25 \$290,980.22 \$484,790.0	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
		00025-1	PLAN1	1	\$144,611.38	\$144,611.38	\$0.00
VI-CLR PRECIPITATORS PLT UPGRADE 00463-1 PLANT 1 \$33,694.13 \$33,694.13 \$0.0	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

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Wasatch Integrated Waste Manag SUMMARY INQUIRY FOR 2012 General Ledger

Page: 1 User ID: davidv

Account:

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

Jurrency:	
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Debit	Credit	Net Change	Period Balance
\$4,682,286.58		\$4,682,286.58	\$4,682,286.58
\$460,005.40		\$460,005.40	\$5,142,291.98
\$2,435.85		\$2,435.85	\$5,144,727.83
\$2,520.66		\$2,520.66	\$5,147,248.49
\$2,769.84		\$2,769.84	\$5,150,018.33
\$2,873.93		\$2,873.93	\$5,152,892.26
\$3,146.85		\$3,146.85	\$5,156,039.11
\$3,282.44		\$3,282.44	\$5,159,321.55
\$3,258.67		\$3,258.67	\$5,162,580.22
\$3,480.29		\$3,480.29	\$5,166,060.51
\$3,371.71		\$3,371 71	\$5,169,432.22
\$3,475.88		\$3,475.88	\$5,172,908.10
\$3,356.28		\$3,356.28	\$5,176,264.38
\$5.176.264.38	\$0.00	\$5,176,264.38	\$5,176,264.38
	\$4,682,286.58 \$460,005.40 \$2,435.85 \$2,520.66 \$2,769.84 \$2,873.93 \$3,146.85 \$3,282.44 \$3,258.67 \$3,480.29 \$3,371.71 \$3,475.88	\$4,682,286.58 \$460,005.40 \$2,435.85 \$2,520.66 \$2,769.84 \$2,873.93 \$3,146.85 \$3,282.44 \$3,258.67 \$3,480.29 \$3,371.71 \$3,475.88 \$3,356.28	\$4,682,286.58 \$460,005.40 \$2,435.85 \$2,435.85 \$2,520.66 \$2,769.84 \$2,873.93 \$3,146.85 \$3,282.44 \$3,258.67 \$3,480.29 \$3,371.71 \$3,475.88 \$3,475.88 \$3,356.28

SWIOD

Division of Solid and Hazardous Waste

FEB 2 8 2013

2013-002167



Ash Residue Characterization Report 2012



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 Pernit 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

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 – 2 nd Quarter 2012 Residue Characterization										
Sample ID Sample Date Sample Time Desc										
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 – 2 nd Quarter (A) 2012 Residue Characterization										
Sample ID										
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

	-	on – 3 rd Quarter 2012 aracterization	
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

	-	on – 4 th 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 (% inch).
- Reducible oversized material is crushed to minus 3/8 inch jaw crusher and recombined with fines.
- Irreducible oversize fraction is weighed, photographed and discarded.
- Minus 3/8 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 \% 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

	Sa	mple !			un of 2 nd Quart	er 2012				
Residue Characterization										
Sample	Total	1	ducible	-3/8 inch	Laboratory					
ID	Sample	Fr	raction	Sample	Sub-sample	Analysis Requested				
10	(lb)	(lb)	(%)	(lb)	(oz)					
AS-12-02-01	13	1	8	12	16	TCLP Lead and Cadmium				
AS-12-02-02					-	TCLP Lead and Cadmium				
	11	2	18	9	16	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				
						TCLP Lead and Cadmium				
AS-12-02-11	8	1	12	7	16	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

	Sa	mple l			•	Sample Identification – 2 nd Run of 2 nd Quarter 2012										
Residue Characterization																
Sample	Total	Irre	ducible	-3/8 inch	Laboratory											
ID	Sample	Fraction		Sample	Sub-sample	Analysis Requested										
ID.	(lb)	(lb)	(%)	(lb)	(oz)											
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										
						TCLP Lead and Cadmium										
AS-12-02A-05	33	2	6	31	16	& 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										
						TCLP Lead and Cadmium										
AS-12-02A-14	34	5	18	29	16	& TCLP 8 RCRA Metals										

Table 7

and a series of the series of											
		Sar	_		- 3 rd Quarter 20:	12					
Residue Characterization											
Sample	Total	Irre	ducible	-3/8 inch	Laboratory						
ID	Sample	Fr	action	Sample	Sub-sample	Analysis Requested					
ID	(lb)	(lb)	(%)	(lb)	(oz)						
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					
						TCLP Lead and Cadmium					
AS-12-03-03	26	_ 3	16	23	16	& 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					
						TCLP Lead and Cadmium					
AS-12-03-10	35	7	20	28	16	& 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

	<u> </u>	Sar	nnla Idan	tification	4 th Quarter 20	12						
		Sai		lue Charac								
	Total Irreducible -3% inch Laboratory											
Sample	Sample	Fraction		Sample	Sub-sample	Analysis Requested						
ID	(lb)	(lb)	(%)	(lb)	(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						
						TCLP Lead and Cadmium						
AS-12-04-07	34	6	18	28	16	& 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						
						TCLP Lead and Cadmium						
AS-12-04-13	38	6	16	32	16	& 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 Dup	olicate Results							
Sample ID	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver			
1 st Set of 2 nd 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								
	2 nd Set of 2 nd 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						
			3 rd Qu	arter 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						
			4 th Qu	arter 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	Event Constituent Action/Comm									

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

		Su	mmary of 1st	Set of 2 nd Qua	rter 2012).		· · · · ·			
		24	•	Characterizati		_'					
	Arsenic	rsenic 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	<u> </u>	0.497						
AS-12-02-14			0.337		0.140						

Table 12

				- md -				
		Sum	•	et of 2 nd Quart				
			Residue Cl	naracterization	1			
	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium_	Silver
Concentration								
For Toxicity	5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0
Characteristic								
Sample ID				TCLP Res	sults			
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	f 3 rd Quarter	2012		Summary of 3 rd Quarter 2012										
			•	Characterizati													
	Arsenic																
Concentration																	
For Toxicity	5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0									
Characteristic																	
Sample ID				TCLP R	esults												
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 4 th Quarter 2012									
Residue Characterization									
	Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver	
Concentration									
For Toxicity	5.0	100.0	1.0	5.0	5.0	0.2	1.0	5.0	
Characteristic							<u> </u>		
Sample ID	TCLP Results								
AS-12-4-01			0.335		< 0.050		<u> </u>		
AS-12-4-02			0.536		0.251				
AS-12-4-03			0.515		0.409		<u> </u>		
AS-12-4-04			0.438		0.101		<u> </u>		
AS-12-4-05			0.404		0.087		<u> </u>		
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		<u> </u>		
AS-12-4-09			0.195		0.050		<u> </u>		
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

Sample Identification - 1 st Quarter 2012
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Field Duplicate Results
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Summary of 3 rd Quarter 2012 Residue Characterization
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Attachment II	Extraction Fluid Determination Logs		
Attachment III	Chain of Custody Forms		
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ATTACHMENT I

LABORATORY ANALYTICAL REPORTS

1st QUARTER EVENT



Contact John Watson

Wasatch Integrated WMD 2nd Qtr' 12 Ash Samples 1207205-001

Project
AMERICAN Lab Sample ID

Analytical Results	<u> </u>				TCLP META	LS Method	1311
TCLP Prep Date	7/15/2012 1630	h Date	Date	Method	Reporting	Apalytical	
Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Cadmium	mg/L	7/16/2012 210 6	7/17/2012 13216	SW6020A	0 00250	0 0403	
Lead	mg/L	7/16/2012 12106	7/17/2012 1321h	SW6020A	0 0500	< 0.0500	•

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463 West 3600 South Salt Lake City, Utah 84115

Kyle F Gross Laboratory Director

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD Client

	Analytical Results						TCLP METALS Method 13					
463 704 4 206 20 45	TCLP Prep Date Compound	7/15/2012 16301 Units	Date Prepared	Dat Analy		Method Used	Reporting Limit	Analytical Result	Qual			
	Arsenic	mg/L	7/16/2012 1210	7/17/2012	1402h	SW6020A	0 0100	< 0 0100	.			
84115	Barrum	mg/L	7/16/2012 1210	7/18/2012	204h	SW6020A	0 0500	0 520				
•	Cadmium	mg/L	7/1 6/2 012 1210	7/17/2612	1402h	SW6020A	0 00250	0 101				
l l	Chromium	mg/L	7/14/2012 1210	7/18/2012	1235h	SW6010C	0 0100	< 0 0100				
}	Lead	· mg/L	7/14/2012 1210	7/17/2012	14026	SW6020A	0 0500	< 0 0500				
	Mercury	mg/L	7/16/2012 1530	7/17/2012	80%	SW7470A	0 0100	< 0.0100				
(801) 263-8686	Selenium	mg/L	7/16/2012 1210	7/17/2012	1402h	SW6020A	0 0100	< 0.0100				
oli Free (888) 263-8686 Fax (801) 263-8687	Silver	mg/L	7/16/2012 1210	7/17/2012	1402h	SW6020A	0 0100	< 0 0100				

Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 7/30/2012 Page 3 of 28



INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD Client Project 2nd Qtr' 12 Ash Samples

| AMERICAN | Lab Sample | 1D | 1207205-003 | WEST | Client Sample | 1D | AS-12-02-03 | ANALYTICAL | Laboratories | Received Date | 7/13/2012 | 810h

	Analytical Results	<u> </u>		TCLP META	LS Method	1311		
	TCLP Prep Date		Date	Date	Method	Reporting	Analytical	_
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Salt Lake City, Ulah	Cadmium	mg/L	7/23/2012 1225h	7/26/2012 2255h	SW6020A	0 00250	0 0962	
84115	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

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD Contact John Watson

2nd Qtr' 12 Ash Samples 1207205-004

	Analytical Results	ı			TCLP METALS Method 1311			
	TCLP Prep Date	7/15/2012 1630h	Date	Date	Method	Reporting	Analytical	
463 West 3600 South	Compound	Unite	Prepared	Analyzed	Used	Limit	Result	Qual
Salt Lake City, Ulah		mg/L	/16/2012 1210b	7/17/2012 1407%	SW6020A	0 00250	0 00662	
84115	Lead	mg/L	/16/2012 1210h	7/17/7012 14079	SW6020A	0 0500	< 0 0500	<u>.</u>

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Report Date 7/30/2012 Page 5 of 28



Contact John Watson

Wasatch Integrated WMD Client.

Project 2nd Qtr' 12 Ash Samples

| AMERICAN | Lab Sample | 10 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 | 107205-005 |

	Analytical Result	1			ICLP META	ALS Method 1311				
	TCLP Prep Date	7/20/2012 1600	h Date	Date	Method	Reporting	Analytkal			
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual		
Salt Lake City, Utah	Cadmium	mg/L	7/23/2012 1225h	7/26/2012 225%	\$W6020A	0 00250	0 0444			
84115	Lead	mg/L	7/23/2012 12256	7/27/2012 1503h	SW6020A	0 0500	< 0 0500	•		

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer **INORGANIC ANALYTICAL REPORT**

Wasatch Integrated WMD Client 2nd Qtr' 12 Ash Samples Project

	Analytical Results	·				ICLI METALS MEMOU 1311				
	TCLP Prep Date	7/15/2012 1630	1 Date	Date	Method	Reporting	Analytical		•	
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Link	Result	Qual		
Salt Lake City, Utah		mg/L	7/16/2012 1210h	7/17/2012 1411h	SW6020A	0 00250	0 0 1 3 7		•	
84115	Lead	m g ∕L	7/16/2012 12:10h	7/17/2012 141 Ib	SW6020A	0 0500	< 0 0500	•		

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 7/30/2012 Page 6 of 28



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD

	Analytical Result					TCLP META	LS Method	1311
	TCLP Prep Date	7/20/2012 16001	Date	Date	Method	Reporting	Analytical	
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Salt Lake City, Utah	Cadmium	mg/L	7/23/2012 1225h	7/74/2012 2332h	SW6020A	0 00250	0 0351	
84115	Lead	mg/L	7/20/2012 1225h	7/27/2012 1120h	SW6020A	0 0500	< 0 0500	•

INORGANIC ANALYTICAL REPORT Contact John Walson

Wasatch Integrated WMD Client Project 2nd Qtr' 12 Ash Samples AMERICAN Lab Sample ID 1207203-008
WEST Client Sample ID AS-12-02-08
ANALYTICAL Collection Date (71/3/2012 810h
ARRICAN Lab Sample ID 1207203-08
AS-12-02-08
AS-12

	Analytical Results				TCLP METALS Method 1311			
	TCLP Prep Date Compound	7/15/2012 1630H	Date Prepared	Data Analyzed	Method	Reporting Limit	Analytical Result	O1
463 West 3600 South	Сотронна	0016	rreparea	Augyzea	Used	LIMI	Result	Qual
Salt Lake City, Utah	Cadmium	mg/L	7/16/2012 1210h	7/17/2012 14166	SW6020A	0 00250	0 0209	
84115	Lead	mg/L	7/14/2012 1210h	7/17/2012 1416b	SW6020A	0.0500	< 0 0500	•

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Kyle F Gross Laboratory Director



Client Wasatch Integrated WMD Project 2nd Qtr' 12 Ash Samples

Contact John Watson

AMERICAN Lab Sample ID 1207205-009 WEST Client Sample ID AS-12-02-09 ANALYTICAL Collection Date 7/11/2012 1356h
LABORATORIES Received Date 7/13/2012 810h

Analytical Results TCLP METALS Method 1311

TCLP Prep Date Compound	7/20/2012 160 Units	Oh Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L	7/23/2012 1225h	7/26/2012 2337h	5W6020A	0 00250	0 194	
Lead	mg/L	7/21/2012 1225h	7/27/2012 1523h	SW6020A	0 0500	0 0585	

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Salt Lake City, Utah 84115

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INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD Cllent 2nd Qtr' 12 Ash Samples

Project 2nd Qtr' 12 As
AMERICAN Lab Sample ID 1207205-010

TCLP METALS Method 1311 Analytical Results TCLP Prep Date 7/15/2012 1630h Compound Units 463 West 3600 South Sall Lake City, Utah Cadmium 84115 Lead mg/L 1/16/2012 1210b 7/17/2012 1420k SW6020A 0 00250 0 0680 < 0 0500 mg/L 7/16/2012 12106 7/17/2012 14206 SW6020A 0.0500 ,

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TCLP METALS Method 1311

Report Date 7/30/2012 Page I1 of 28



INORGANIC ANALYTICAL REPORT

Contact John Watson

Client Wasatch integrated WMD Project 2nd Qu' 12 Ash Samples

Analytical Results

TCLP Prep Date Compound	7/20/2012 1600 Units	h Data Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Arsenic	mg/L	7/23/2012 1225h	7/24/2012 23415	SW6020A	0 0100	< 0 0100	•
Barium	mg/L	7/23/2012 1225h	7/26/2012 2341k	SW6020A	0 0500	0 445	
Cadmium	mg/L	7/23/2012 1225h	7/26/2012 2341h	SW6020A	0 00250	0.357	
Chromlum	mg/L	7/23/2012 1225h	7/26/2012 1615h	SW6010C	0 0100	< 0.0100	
Lead	mg/L	7/21/2012 1225h	7/27/2012 1526h	SW6020A	0 0500	0 0777	
Mercury	mg/L	7/23/2012 11159	7/25/2012 84%	SW7470A	0 0100	< 0 0100	
Selenium	mg/L	7/23/2012 1225h	7/26/2012 2341h	\$W6020A	0 0100	< 0 0100	
Silver	mg/L	7/23/2012 12256	7/26/2012 2341h	SW6020A	0 0100	< 0.0100	
	Compound Artenic Barium Cadmium Chromlum Lead Mercury Selenium	Compound Units Arrente mg/L Barrum mg/L Cadmium mg/L Chromlum mg/L Lead mg/L Mercury mg/L Selenium mg/L	Compound Units Prepared Arsenic mg/L 7/23/2011 1278 Barum mg/L 7/23/2011 1228 Cadmisum mg/L 7/23/2012 1228 Chromitum mg/L 7/23/2012 1228 Lead mg/L 7/23/2012 1118 Selenium mg/L 7/23/2012 1228	Compound Units Dates Prepared Analyzed Date Analyzed Arrenic mg/L 7/23/2012 1225 7/24/2012 234 7/24/2012 234 7/24/2012 2341h Barrum mg/L 7/23/2012 1225 7/24/2012 234 7/24/2012 234 7/24/2012 7/23/2012 1225 7/24/2012 234 7/24/2012 2341h Chromium mg/L 7/23/2012 1223 7/24/2012 1235 7/24/2012 347h Lead mg/L 7/23/2012 1115 7/25/2012 347h 347h Selenium mg/L 7/23/2012 1225 7/24/2012 234 17k 347h	Compound Units Date Prepared Analyzed Date Analyzed Used Method Used Arzenic mg/L 7/12/0012 1228 7/24/2012 3341s 5/66/20A Barium mg/L 7/32/0012 1228 7/24/2012 2341s 5/66/20A Cadmium mg/L 7/22/2012 1228s 7/26/2012 241s 5/66/20A Chromlum mg/L 7/22/2012 1228s 7/26/2012 324s 5/66/20A Lead mg/L 7/21/2012 121s 7/22/2012 347s 5/67/20A Mercury mg/L 7/21/2012 1228s 7/26/2012 347s 5/67/20A Selenium mg/L 7/22/2012 1228s 7/26/2012 324is 5/66/20A	Compound Units Date Properties (Analyzed Lied Limit Method Lied Limit Reporting Limit Arzenic mpt. 7/22/0012 12236 7/24/2012 1341b 5 W602DA 0 0100 Barrum mpt. 7/22/0012 1223b 7/24/2012 2341b 5 W602DA 0 0500 Cadmium mpt. 7/22/0012 1223b 7/24/2012 2441b 5 W602DA 0 00250 Chromlum mpt. 7/22/2012 1223b 7/24/2012 1323b 5 W602DA 0 00500 Lead mpt. 7/22/2012 1233b 7/24/2012 1324b 5 W602DA 0 0500 Mercury mpt. 7/22/2012 1323b 7/24/2012 1324b 5 W602DA 0 0100 Selenium mpt. 7/22/2012 1225b 7/24/2012 1241b 5 W602DA 0 0100	Compound Units Dates Prepared Parts Analyzed Analyzed Used Method Limit Reporting Result Arzenic mgf. 7/23/2012 12234 762/2012 3244 5 5/66/2004 00100 < 0.0100

Kyle F Gross Laboratory Director

awal@

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD Client 2nd Qtr' 12 Ash Samples 1207205-012 Project

AMERICAN Lab Sample ID

	Analytical Results	L.				TCLP META	LS Method	1311
	TCLP Prep Date	7/20/2012 1600h	Date	Date	Method	Reporting	Analytical	
	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
463 West 3600 South Salt Lake City, Utah		mg/L ?	/23/2017 1225	h 7/27/2017 004h	SW6020A	0 00250	0 427	
84115	Lead	mg/L ¹	72372012 1225	h 7/27/2012 1534h	SW6020A	0 0500	0 0936	
Salt Lake City, Utah	Cadmium							

subjects applicable to the CWA, 5DWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is toosted on the attached COC This ded for the exclusive use of the addresses Privileges of subsequent use of the name of this company or any member of its safe or reproduction of this report in come

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 7/30/2012 Page 12 of 28

Report Data 7/30/2012 Page 13 of 28

^{*} The reporting limits were raised due to sample matrix interferences



Contact John Watson

Wasatch Integrated WMD

2nd Qu' 12 Ash Samples Project

	Analytical Results			ICLP METALS Method 1311				
	TCLP Prep Date	7/20/2012 1600	h Date	Date	Method	Reporting	Analytical	
462.111	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
463 West 3600 South Salt Lake City, Utah		mg/L	7/23/2012 1221h	7/27/2012 00%	SW6020A	0 00250	0,410	
84115	Lead	mg/L	7/23/2012 1225h	7/27/2012 1537h	SW6020A	0 0500	0 497	

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 7/30/2012 Page 14 of 28

TCLP METALS Method 1311



INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD 2nd Qtr' 12 Ash Samples Project

-	Analytical Result	,				I CLI MILII	TES MENIOR	
	TCLP Prep Date	7/15/2012 1630	h Date	Date	Method	Reporting	Analytical	
	Compound	Units	Prepared	Analyzed	d Used	Limit	Result	Qual
463 West 3600 South Salt Lake City, Utah	Arsenic	mg/L	7/16/2012 12106	7/17/2012 14	25h SW6020A	0 0100	< 0 0100	•
84115	Barium	mg/1.	7/16/2012 12106	7/11/2012 2	5W6020A	0 0500	0 482	
	Cadmium	mg/L	7/16/2012 12106	7/17/2012 (4	314 SW6020A	0 00250	0 0677	
	Chromium	mg/L	7/16/2012 12106	7/18/2012 12	39 SW6010C	0 0 1 0 0	< 0 0100	
	Lead	mg/L	7/14/2012 12100	7/17/2012 14	25h SW6020A	0 0500	< 0.0500	•
	Mercury	ng/L	7/16/2012 15309	7/17/2012	16h SW7470A	0 0 1 0 0	< 0 0100	•
(801) 263-8686	Selenium	mg/L	1/16/2012 12106	7/17/2012 14	25h 5W6020A	0 0100	< 0 0100	•
Toli Free (888) 263-8686 Fax (801) 263-8687	Silver	mg/L	7/16/2012 12106	7/17/2012 14	25k SW6020A	0 0 1 0 0	< 0 0100	•
ad awal@awal-laba.com								

Kyle F Gross Laboratory Director

Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD

Project 2nd Qtr' 12 Ash Samples

	Analytical Results	nalytical Results					ICLP METALS Method 1311				
	TCLP Prep Date	7/20/2012 1600	Date	Date	Method	Reporting	Analytical				
463 IV - 4 3600 G - 4	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual			
463 West 3600 South Salt Lake City, Utah	Cadmium	mg/L	7/23/2012 1225)	7/27/2012 013%	SW6020A	0 00250	0 337				
84115	Lead	mg/L	7/23/2012 1225b	7/27/2012 1540k	SW6020A	0 0500	0 140				

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 7/30/2012 Page 15 of 28



ORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD Contact John Watson

Project 2nd Otr' 12 Ash Samples

	Aualyzed 7/16/2012 1657h			TCI	P Prep Date	7/15/2012	1630
	Units mg/L	Dilution Factor	20		Methed	SW8260C	
463 West 3600 South Salt Lake City, Utah 84115	Compound		N	CAS R	eporting Limit	Analytical Result	Qual
	I,I-Dichloroethene			5-35-4	0 0400	< 0 0400	
	1,2-Dichloroethane		10	07-06-2	0 0400	< 0 0400	
	1.4-Dichlorobenzene		1	06-46-7	0 0400	< 0 0400	
	2-Butanone			8-93-3	0 200	< 0 200	
(801) 263-8686	Benzene		7	1-43-2	0 0200	< 0 0200	
	Carbon tetrachloride		5	6-23-5	0 0400	< 0 0400	
Fax (801) 263-8687	Chlorobenzene		- 1	08-90-7	0 0400	< 0 0400	
nail awal@awal-labs.com	Chloroform		6	7-66-3	0 0400	< 0 0400	
	Tetrachloroethene		- 1:	27-18-4	0 0400	< 0 0400	
Kyle F Gross	Trichloroethene		7	79-01-6	0 0400	< 0 0400	
Laboratory Director	Vinyl chloride		•	75-01-4	0 0200	< 0 0200	
Jose Rocha	Surrogate	CAS	Rault	Amount Spike	d % REC	Limits	Qua
QA Officer	Surr Tolueno-d8	2037 26-5	0 994	1 000	99 4	77 129	
	Surr Dibromoffuoromethane	1868-53 7	111	1 000	111	80-124	
	Surt 4-Bromofluorobenzene Surt 1.2-Dichloroethane-64	460-00-4 17060-07-0	108	1 000 1 000	108 109	80-128 72 151	

2nd QUARTER EVENT



Wesetch Integrated WMD Project 2nd Otr (A) 12

AMERICAN Lab Sample ID

463 West 3600 South Salt Lake City, Utah 84115

1209297-001 | WEST | Client Sample ID | AS-12-02A-|
| ANALYTICAL | Collection Date | 9/12/2012 | 0820h |
| LABORATORIES | Received Date | 9/18/2012 | 1324h |

Analytical Results	<u> </u>				ICLP ME I	ALS Method	1311
TCLP Prep Date.	9/26/2012 2010	h Date	Date	Method	Reporting	Analytical	
Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Cedmium	mg/L	9/28/2012 045h	9/29/2012 2112h	SW6020A	0 00250	0 0179	
Lead	mg/L	9/28/2012 045h	9/29/2012 2112h	SW6020A	0 0500	< 0 0500	•

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> Kyle F Gross Laboratory Director

> > Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Wesatch Integrated WMD Project 2nd Qtr (A) '12 1209297-002 AMERICAN Lab Sample ID

Analytical Results	1				TCLP META	LS Method	1311
TCLP Prep Date	9/26/2012 2010	1 Date	Date	Method	Reporting	Analytical	
Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Cedmium	mg/L	9/28/2012 1045h	9/29/2012 2147h	SW6020A	0 00250	0.329	
Lead	mg/L	₩2 ₩ 20 2 1045 b	9/29/2012 2147h	SW6020A	0 0500	0 265	
	TCLP Prep Date Compound Cadmium	Compound Units Cadmium mg/L	TCLP Prep Date 9/26/2012 2010h Date Compound Units Prepared Commound Com	TCLP Prep Date 9/26/2012 2010h Date Date Date Compound Units Prepared Analyzed Cadmium mgl. 9/28/2012 10/4% \$70/2012 21/4%	Compound 9/26/2012 2010h Date Date Method	TCLP Prep Date 9/26/2012 2010h Date Date Method Reporting Compound Units Prepared Analyzed Used Limit Cadmium mg/L extra01/2 104% extra020/2 214% SW6020A 0 00250	TCLP Prep Date 9/26/2012 2010h Date Date Date Used Compound Units Prepared Analyzed Used Used Limit Result Result Cadmium mg/L 9/28/2012 10438 9/39/2013 21478 SW6020A 0 0 00250 0.329

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Jose Rocha QA Officer

Report Date 10/2/2012 Page 2 of 20

Report Date 10/2/2012 Page 3 of 20

TCLP METALS Method 1311



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD | New York
	Analytical Results	nalytical Results					TCLP METALS Method 1311					
	TCLP Prep Date	9/26/2012 2010h	Date	Date	Method	Reporting	Analytical					
463 West 3600 South Salt Lake City, Utah	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual				
	Cedmium	mg/L	W28/2012 1045h	9/29/2012 22159	SW6020A	0 00250	0 0143					
84115	Lead	mg/L (278/2012 1043b	9/29/2012 2213h	SW6020A	0 0500	< 0 0500	•				

INORGANIC ANALYTICAL REPORT

Wesetch Integrated WMD Project. 2nd Otr (A) '12 AMERICAN Lab Semple ID: 1209297-004

 WEST ANALYTICAL LABORATORIES
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	Analytical Result				TOET METAES Memod 15					
	TCLP Prep Date	9/26/2012 2010	h Dute	Date	Method	Reporting	Apalytical			
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Quel		
Salt Lake City, Utah	Cadmium	m g /L.	9/28/2017 O45h	9/29/2012 2232k	SW6020A	0 00250	0 0445			
84115	Lead	mg/L	8:28/2012 1045h	9/29/2012 2232h	SW6020A	0 0500	< 0 0500	•		
	• The resortion floats		1							

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> Kyle F Gross Laboratory Director

> > Jose Rocha QA Officer

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Kyle F Gross Laboratory Director



Wesetch Integrated WMD

2nd Qtr (A) '12 Project

Contact John Wetson

	Analytical Results	:					TCLP META	LS Method	1311
462 W 1 4600 O 1	TCLP Prep Date Compound	9/26/2012 2010h Units	Date Prepared	Dete Analy		Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Salt Lake City, Utah	Arsenic	mg/L 9	V28/2012 1045h	10/1/2012	125 0h	SW6020A	0 0100	< 0 0100	•
84115	Berium	mg/L, 9	VZ&Z012 1045k	9/29/2012	2229h	5W6020A	0 0500	0 250	
	Cadmium	mg/L 9	/28/2012 1045h	9/29/2012	2229h	5W6020A	0 00250	0 0554	
	Chromium	mg/L 9	V28/2012 1045h	9/29/2012	2229h	SW6020A	0 0100	< 0.0100	•
	Lead	mg/1. □	v28/2012 1045h	W29/2012	2229h	SW6020A	0 0500	< 0.0500	•
	Mercury	mg/L 1	v27/2012 1630b	9/28/2012	120 2 h	SW7470A	0 0100	< 0 0100	•
(801) 263-8686 Toli Free (888) 263-8686	Selenium	mg/I s	V28/2012 1045b	9292012	2229h	SW6020A	0 0100	< 0.0100	•
Fax (801) 263-8687	Silver	mg/L 1	/28/2012 1045h	9/29/2012	2229h	SW6020A	0 0 1 0 0	< 0 0100	•
mail awal@awal-labs.com									-

Laboratory Director

-mail awal@awal-labs o

Jose Rocha QA Officer



Centact John Wetson

Client Wasatch Integrated WMD

Project

	Analytical Results	·				ICLP META	LLS Method	1311
	TCLP Prep Date	9/26/2012 2010	1 Date	Date	Method	Reporting	Analytical	
463 West 3600 South	Cempound	Units	Prepared	Analyzed	Used	Limit	Result	Quel
Salt Lake City, Utah	Cedmrum	mg/L	9/28/2012 1045h	1/21/2012 2237h	SW6020A	0 00250	0 475	
84115	Lead	m#/L	9/28/2012 1045h	9/29/2012 2237h	SW6020A	0.0500	0.0595	

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Project

Analytical Results

Client

463 West 3600 South	TCLP Prep Date Compound	9/26/2012 2010 Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, Utah		mg/L	9/28/2012 1045b	9/29/2012 2244	\$W6020A	0 00250	0 0957	
84115	Lead	mg/L	9/28/2012 1045h	9/29/2012 2244h	5W6020A	0 0500	< 0 0500	•

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Wasatch Integrated WMD

Centect John Welson

		TCLP META	LS Method	1311
	Method Used	Reporting Limit	Analytical Result	Qual
•	\$W6020A	0 00250	0 0957	
	£3346030 A	0.0600	< 0.0500	

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> > Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Contect: John Wetson

Client Wasatch Integrated WMD Project 2nd Qtr (A) 12

	Analytical Results					TCLP META	LS Method	1311
	TCLP Prep Date Compound	9/26/2012 2010 Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analyticel Result	Qual
463 West 3600 South Salt Lake City, Utah		m g 1L	9/28/2012 (D45h	W29/2012 2251h	SW6020A	0 00250	0 0785	
84115	Lead	m g/ L	9/28/2012 (045a	9/29/2012 2251A	SW6020A	0 0500	< 0 0500	•
	. The renewton Harles							



Project 2nd Otr (A) '12

Wasatch Integrated WMD

AMERICAN Lab Sample ID

463 West 3600 South Salt Lake City, Utah 84115

1209297-009
 WEST
 Client Sample ID
 AS-12-02A-9

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 Collection Date Received Date
 9/13/2012
 1259h

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Analytical Results					TCLP META	LS Method	1311
TCLP Prep Date	9/26/2012 2010	Date	Date	Method	Reporting	Analytical	
Compound	Unita	Prepared	Analyzed	Used	Limit	Result	Qual
Cadmium	mg/L	9/28/2012 IO45h	W2W2012 2258h	5W6020A	0 00250	0 278	
Lead	mg/L	9/28/2012 1045h	W29/2012 2218h	SW6020A	0 0500	0 0791	

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Kyle F Gross Laboratory Director



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD 2nd Otr (A) 12

Project 1209297-010 AMERICAN Lab Sample ID

	Analytical Results				TCLP META	LS Method	1311	
	TCLP Prep Date	9/26/2012 2010h	Date	Date	Method	Reporting	Anniytical	
462 111	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
463 West 3600 South Salt Lake City, Utah		mg/L s	22\$/2012 1045h	9/29/2012 2305h	SW6020A	0 00250	0 343	
84115	Lead	mg/L 1	P28/2012 1043b	9/79/2012 2305h	SW6020A	0 0500	0 227	

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 10/2/2012 Page 10 of 20



INORGANIC ANALYTICAL REPORT

Client Project

Wasatch Integrated WMD 2nd Otr (A) 12

Contact John Walson

	Analytical Result	1		TCLP META	LS Method	1311_		
	TCLP Prep Date	9/26/2012 2010h	Date	Date	Method	Reporting	Analytical	
	Compound	Units	Prepared	Anniyzed	Used	Limit	Result	Qual
463 West 3600 South	Cadamin			9/29/2012 2312h		0.00250	0 562	
Salt Lake City, Utah		mg/L S	V2U/2012 10438	9/29/2012 2312N	SW6020A	0 00230	V 302	
84115	Lead	mg/L (20/2012 :0451	9/29/2012 2312h	SW6020A	0 0500	0 153	

INORGANIC ANALYTICAL REPORT

Contact John Watson

Client Wasatch Integrated WMD 2nd Qtr (A) '12 Project

TCLP METALS Method 1311 Analytical Results TCLP Prep Date 9/26/2012 2010h Date Date Method Used Reporting Limit Analytical Result 463 West 3600 South Salt Lake City, Utah Cadmium 84115 Lead Qual Compound Units 0 00250 0 614 9/28/2012 1045k 10/1/2012 1325h SW6020A 0 0500 0 187

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Jose Rocha QA Officer

Kyle F Gross aboratory Director Jose Rocha QA Officer

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Report Date 10/2/2012 Page 12 of 20

Report Date 10/2/2012 Page 13 of 20

Report Date 10/2/2012 Page 11 of 20



Wasatch Integrated WMD

	Analytical Results						TCLP META	LS Method	13+1
463 West 3600 South	TCLP Prep Dete Compound	9/26/2012 2010 Units	Date Prepared	Date Analy:		Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, Utah	Arsenic	mg/L	9/28/2012 1045h	10/1/2012	329k	SW6020A	0 0100	< 0 0100	•
84115	Barium	mg/L	\$/28/2012 1045k	9/30/2012	0002h	SW6020A	0 0500	0.515	
	Cadmium	mg/L	%78/2012 (041b	9/30/2012	0002h	SW6020A	0 00250	0 563	
	Chromium	mg/L	9/28/2012 1045h	\$ 30/2012	0002k	SW6020A	0 0100	< 0 0100	•
	Lead	mg/L	9/28/2012 1045h	10/1/2012	1329k	SW6020A	0 0500	0 976	
	Mercury	mg/L	9/27/20 2 163 0 k	9/28/2012	213h	SW7470A	0 0100	< 0 0 100	•
(801) 263-8686 Foll Free (888) 263-8686	Setenium	mg/L	9/2 1/ 2012 1045h	9/30/2012	0002h	SW6020A	0 0100	< 0 0100	•
Fax (801) 263-8687	Silver	mg/L	9/28/2012 1045k	9/30/2012	0002h	SW6020A	0 0 1 0 0	< 0 0100	•
ni nwai@awai-labs com	The reporting limits	were mixed due to u	amale metric inte	erferences					

Laboratory Director

Jose Rocha QA Officer

Report Date 10/2/2012 Page 14 of 20



INORGANIC ANALYTICAL REPORT

Client

Wasatch Integrated WMD

	Analytical Results TCLP METALS Method 1311											
4/2 W 2/20 C	TCLP Prep Dete Compound	9/26/2012 2010h Units	Date Prepared	Date Analys		Method Used	Reporting Limit	Analytical Result	Qual			
463 West 3600 South Salt Lake City, Utah	Arsenic	mg/L 1	V28/20 2 1045h	10/1/2012	13374	SW6020A	0 0100	< 0 0100	•			
84115	Barium	mg/L 1	71/2012 1045k	9/30/2012	0016k	\$W6020A	0 0500	0.341				
	Cadmium	mag/L •	/21/2012 1045h	930/2012	0016k	SW6020A	0 00250	0 647				
	Chromium	mg/L 1	V28/2012 1045h	9/30/2012	0016h	\$W6020A	0 0 1 0 0	< 0.0100	•			
	Lead	mg/L s	V28/2012 1045h	10/1/2012	1337h	SW6010A	0 0500	0 218				
	Mercury	mg/L 5	77,2012 1650k	9/28/2012	12155	SW7470A	0 0100	< 0 0100				
(801) 263-8686	Selenium	mg/L s	V28/2012 1045E	9/30/2012	00 ea	SW6020A	0 0 1 0 0	< 0 0100	•			
Toll Free (888) 263-8686 Fax (801) 263-8687	Silver	mg/L s	M28/2012 1045h	9/30/2012	00 6h	SW6020A	0 0 1 0 0	< 0 0100				
nail awai@swai-labs com	* - The reporting limits	were roused due to sai	nple matrix int	erferences	•							

Kyle F Gross Laboratory Director



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD Client

	Analytical Results						ICEI METALS Method 1311					
	TCLP Prep Date	9/26/2012 2010	1 Date	Date	Method	Reporting	Analytical					
63 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual				
Salt Lake City, Utah		mg/L	9/28/2012 (045h	9/30/2012 0009k	SW6020A	0 00250	0 699					
84115	Lead	mg/L	9/21/2012 1045b	10/1/2012 1333h	SW6020A	0 0500	0 139					

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ort Date 10/2/2012 Page 15 of

3rd QUARTER EVENT



Client. Wasatch Integrated WMD Project

3rd Otr '12 Ash

Contact: John Watson

AMERICAN Lab Sample ID

463 West 3600 South Salt Lake City, Utah 84115

1210097-001
 AMERICAN
 Lau Sample ID:
 AS-12-03-01

 WEST
 Client Sample ID:
 AS-12-03-01

 ANALYTICAL
 Collection Date:
 91/9/2012
 913h

 LABORATORIES
 Received Date:
 10/5/2012
 323h

Analytical Results	1		TCLP METALS Method 1311				
TCLP Prep Date Compound	10/9/2012 1850 Units	h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Cadmium	mg/L I	0/11/2012 920h	10/12/2012 1615k	SW6020A	0 00250	0 0589	
Lead	mg/L I	6/11/2012 920h	0/12/2012 615a	SW6020A	0 0500	< 0 0500	•

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Jose Rocha QA Officer

bet to the CWA, 80NA, and RCRA are parformed in accordance to NELAC protocols. Perthent sampling informed on a located on the attended CCC. This responsibilities use of the addresses Printages of subsequent use of the name of this company of any member of its set of reproduction of this report in connection aroundoon or safe of any product or process or in connection with the re-publication of this Report for any purpose other than for the addresses will be granted in



INORGANIC ANALYTICAL REPORT

Client Project

Wasaich Integrated WMD 3rd Qtr '12 Ash

Contact John Watson

TCLP METALS Method 1311

AMERICAN Lab Sample ID 1210097-003 WEST Client Sample ID 4S-12-03-03 ANALYTICAL Collection Date Laboratories Received Date 1015/2012 1323h

	Analytical Results					ICEI MEI	ILD INTEGROU	4 . 5	
463 West 3600 South	TCLP Prep Date [.] Compound	10/8/2012 1700 Units	h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual	
Salt Lake City, Utah	Arsenic	mg/L	10/10/2012 910	10/12/2012 2210h	SW6020A	0 0100	< 0 0100	•	
	Вапит	mg∕1.	IO/10/2012 910	h 10/12/2012 2210h	SW6020A	0 0500	0 437		
	Cadmium	mg/L	10/10/2012 910	h 10/12/2012 2210h	SW6020A	0 00250	0.102		
	Chromsum	mg/L	10/10/2012 910	h 10/12/2012 2210h	SW6020A	0 0100	0 0246		
	Lead	mg/L	10/10/2012 910	h	SW6020A	0 0500	0 103		
(001) 040 0404	Mercury	mg/l.	10/9/2012 1310	n 10/10/2012 1036h	SW7470A	0 0100	< 0 0100	•	
Fax (801) 263-8687	Selenium	mg/L	10/10/2012 910	h 10/15/2012 1928a	SW6020A	0 0100	< 0 0100	•	
	Silver	mg∕1.	10/10/2012 910	h 0/ 2/20 2 22 0h	SW6020A	0 0100	< 0 0100	•	
awai@awai-labs com	P . The reporting II						_		

QA Office



INORGANIC ANALYTICAL REPORT

Project. AMERICAN Lab Sample ID

3rd Otr 12 Ash 1210097-002

	Analytical Results				TCLP METALS Method 1311			
	TCLP Prep Date	10/9/2012 1850	Date	Date	Method	Reporting	Analytical	
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Quel
Salt Lake City, Utah	Cadmium	mg/L I	VII/2012 970h	10/12/2012 1650h	SW6020A	0 00250	0 0221	
r 84115	Lead	mg/L. II	VII/2012 9200	10/12/2012 L650h	SW6020A	0 0500	< 0 0500	•

[.] The reporting limits were raised due to sample matrix interferences

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Report Date: 10/18/2012 Page: 1 of: analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Performed sampling information is coaled on the attack GOC This report Date of the actual value of this addresses. Privileges of subsequent use of the numb of this company or any member of its staff or recorded or this report or disapport or disapport or disapport or connection advertisement promotion or safe of any product or process or in connection with the re-publication of this report for any purpose other than for the addresses will be granted.



INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch integrated WMD Project 3rd Otr '12 Ash

1210097-004 AMERICAN Lab Sample ID

WEST Client Sample ID · A3-12-03-04

ANALYTICAL Collection Date | 9/19/2012 | 1105h

LABORATORIES | Received Date | 10/5/2012 | 1323h

TCLP METALS Method 1311 Analytical Results TCLP Prep Date. 10/9/2012 1850h Analytical Result Units Prepared Analyzed 463 West 3600 South . Salt Lake City, Utah Cadmium 84115 0 00250 0.124 mg/L 10/11/2012 920h 10/12/2012 1658h SW6020A mg/L (0/11/7012 920h 10/12/2012 1658h SW6020A 0.0500 6.0502

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Kyle F Gross Laboratory Director



Wasatch Integrated WMD

	Analytical Results			TCLP META	ALS Method	1311		
463 West 3600 South	TCLP Prep Date [.] Compound	10/9/2012 1850h Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, Utah	Cadmium	mg/L 14	0/11/2012 920h	IO/12/2012 1705h	SW6020A	0 00250	0 0504	
84115	Lead	mg/L ⊔	0/11/2012 920h	10/12/2012 1705h	SW6020A	0 0500	< 0 0500	

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> Kyle F Gross Laboratory Director

> > Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

TCLP METALS Method 1311

Client Wasatch Integrated WMD Project 3rd Qtr 12 Ash

AMERICAN Lab Sample ID 1210097-007
WEST Client Sample ID 41-12-03-07
ANALYTICAL Collection Date 105/2012 1257h
LABORATORIES Received Date 105/2012 1323h Analytical Passite

	Analytical Result						шо плеше	
	TCLP Prep Date	10/9/2012 1850	h Date	Date	Method	Reporting	Analytical	
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Quel
Salt Lake City, Utah	Cadmium	mg/L	O/11/2012 920h	10/12/2012 17406	SW6020A	0 00250	0 0280	
84115	Lead	mg/L I	O/11/2012 920k	10/12/2012 17406	SW6020A	0 0500	< 0 0500	•

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

3rd Qtr '12 Ash

Project: | AMERICAN Lab Sample ID: | 1210097-006 | WEST Client Sample ID | A-12-03-06 | ANALYTICAL Collection Date: | 01/5/2012 | 1233h | 1234h
Analytical Results		_			TOUT META	ALS MEHIOR	1211
TCLP Prep Date	10/9/2012 1850h	Date	Date	Method	Reporting	Analytical	-
Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Cadmium	mg/L 10	/11/2012 9 20b	@12/2012 712h	5W6020A	0 00250	0.0323	
Lead	m g/ L 10	/11/2012 920h	10/12/2012 1712h	5W6020A	0 0500	< 0 0500	•
	TCLP Prep Date	TCLP Prep Date 10/9/2012 1850h Compound Units Cadmium mg/L 10	TCLP Prep Date 10/9/2012 1850h Date Compound Units Prepared Cadmium mg/L 10/11/2012 370h	TCLP Prep Date 10/9/2012 1850h Date Date Compound Units Prepared Analyzed Cadmium mg/L 10/11/2012 2708 16/12/2012 17/126	TCLP Prep Date 10/9/2012 1850h Date Date Method Compound Units Prepared Analyzed Method Cadmium mg/L 10/11/2012 2708 16/12/2012 1712a 3 W60/20A	TCLP Prep Date: 10/9/2012 1850h Date: Date: Method: Reporting Limit Compound Units Prepared Analyzed Used Limit Cadmium mg/L 10/11/2012 200s. 10/12/2012 17/12s. 3W6020A 0 00250	TCLP Prep Date 10/9/2012 1850h Date Date Compound Units Prepared Analyzed Used Limit Result

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Kyle F Gross Laboratory Director

Jose Roche QA Officer

10/18/2012 Page 7 of 20 the estagned COC This repor



INORGANIC ANALYTICAL REPORT

Contact: John Watson

Client Wesatch Integrated WMD

Project: 3rd Otr 12 Ash

	Analytical Results	1	_			ICLP META	ALS Method	1311
	TCLP Prep Date	10/9/2012 1850h	Date	Date	Method	Reporting	Analytical	
63 West 3600 South	Compound	Unite	Prepared	Analyzed	Used	Limit	Result	Qual
Salt Lake City, Utah	Cadmium	mg/L 10	/11/2012 920h	10/12/2012 1747h	\$W6020A	0 00250	0 0353	
84115	Lead	mg/L i≎	v11/2012 920h	10/12/2012 1747h	5W6020A	0 0500	< 0 0500	•

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Kyle F Gross Laboratory Director



Wasatch Integrated WMD Project:

3rd Qtr 12 Ash AMERICAN Lab Sample ID: 1210097-009

Contact: John Watson

	Analytical Results					TCLP META	LS Method	1311
	TCLP Prep Date: Compound	10/9/2012 1850 Units	h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Salt Lake City, Utah	Cadmium	mg/L	O/11/2012 920b	10/12/2012 1754h	SW6020A	0 00250	0,358	
84115	Lead	me/L	W11/2012 920h	10/12/2012 1754h	SW6020A	0.0500	0 186	

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Client, Wasatch Integrated WMD Project. 3rd Qtr '12 Ash

Contact John Watson

	Analytical Results	l				ICLF MEIA	Tre Memod	1311
	TCLP Prep Date	10/9/2012 1850h	Date	Date	Method	Reporting	Analytical	
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Quai
Salt Lake City, Utah	Cadmium	mg/L is	VII/2012 920h	10/12/2012 1902h	5W6020A	0 00250	0.0755	
84115	Lead	mg/L id	V11/2012 920h	10/12/2012 1802h	SW6020A	0 0500	< 0 0500	•

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Kyle F Gross

Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Client Wasatch Integrated WMD

3rd Otr '12 Ash Project AMERICAN Lab Sample ID 1210097-010

 WEST Client Sample ID AS-12-03-10

 ANALYTICAL LABORATORIES Received Date:
 09/19/2012 1505h

 10/5/2012 13/33h

	Analytical Results	ı				TCLP META	LS Method	1311
463 West 3600 South	TCLP Prep Date Compound	10/8/2012 1700 Units	h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, Utah		mg/L	0/10/2012 910%	10/12/2012 2307h	SW6020A	0 0100	< 0 0100	•
84115	Barium	mg/L	0/10/2017 9JOh	10/12/2012 230%	SW6020A	0 0500	0 434	
	Cadmium	mg/L	0/10/2012 P10h	10/12/2012 230%	SW6020A	0 00250	0 0805	
•	Chromium	mg/L	lov10/2012 910m	10/12/2012 2307h	SW6020A	0 0100	< 0 0100	•
	Lead	mg/L	10/10/2012 910h	10/12/2012 230%	SW6020A	0 0500	0 118	
(801) 263-8686	Mercury	mg/L	L0/9/2012 1310h	10/30/2012 1041%	SW7470A	0 0100	< 0 0100	•
Toll Free (888) 263-8686	Selenium	mg/L	0/10/2012 910h	10/15/2012 1949h	SW6020A	0 0100	< 0 0100	
Fax (801) 263-8687	Silver	mg/L	10/10/2017 910h	10/12/2012 230%	SW6020A	0 0100	< 0 0100	•
e-mail awal@awal-labs.com	. The reporting limits	were raised due to s	ample matrix int	urferences				

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Jose Rocha QA Officer

Report Date: 10/18/2012. Pag. 11 of 7.

All prefrages applicable to the CWA, SDWA, and RCRA are performed in eccordance to NELAC protocols. Perinant sampling information in accordance to NELAC protocols. Perinant sampling information are considered in the attended COC. This map provided for the exclusive use of the editionate. Printinger of subsequent use of the name of this company or any member of its staff or reproduction of the report in or promotion or sale of the product or processe or in connection with the reputation of this report in any purpose of their for the advisesser will be granted.



INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD Client. Project 3rd Qtr '12 Ash

	Analytical Results	Analytical Results					TCLP METALS Method 1311				
	TCLP Prep Date	10/9/2012 1850h	Date	Date	Method	Reporting	Analytical				
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual			
Salt Lake City, Utah	Cadmium	mg/L 10	V11/2017 920h	10/12/2012 180%	SW6020A	0 00250	0 0717				
84115	Lead	mg/L 10	VII/2012 920m	10/12/2012 1809h	SW6020A	0 0500	< 0 0500	•			

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> Kyle F Gross Laboratory Director



Wasatch Integrated WMD 3rd Qtr 12 Ash

AMERICAN Lab Sample 1D 1210097-013
WEST Client Sample 1D 4-12-03-13
ANALYTICAL Collection Date LABORATORIES Received Date 105/2012 1323h

Project:

	Analytical Results	1				TCLP META	LS Method	1311
	TCLP Prep Date Compound	10/9/2012 1850 Units	h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Salt Lake City, Utah		mg/L	10/11/2012 920h	10/12/2012 1816h	SW6020A	0 00250	0 0463	
84115	Lead	m g /L	10/11/2012 92 0 k	10/12/2012 18166	SW6020A	0 0500	< 0 0500	•

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	Fax (801) 263-868
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Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD 3rd Qtr '12 Ash

Analysisal Basulta

						TOLDMET	1614-4-1	
	Analytical Results					TCLP META	ILS Memod	1111
	TCLP Prep Date	10/8/2012 1700	h Date	Date	Method	Reporting	Analytical	
462 11/ 2600 0 4	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Quel
463 West 3600 South Salt Lake City, Utah	Arsenic	mg/L	IO/10/2012 +10h	10/12/2012 2314h	SW6020A	00100	< 0 0100	•
84115	Bartum	mg/L	10/10/2012 910h	10/12/2012 23146	5W6020A	0 0500	0.386	
	Cadmium	mg/L	IN/10/2012 910b	(Q/12/2012 2314h	5W6020A	0 00250	0.0695	
	Chromium	mg/L	10/10/2012 510h	10/12/2012 2314h	SW6020A	0 0100	< 0 0100	٠
	Lead	mg/L	(0/10/2012 91 0 m	10/12/2012 2314h	5 W6020 A	0 0500	0.0585	
	Mercury	mg/L	[0/9/2012 1310h	10/10/2012 1043h	SW7470A	0 0100	< 0 0100	•
(801) 263-8686 oll Free (888) 263-8686	Selenium	mg/L	10-10-2012 910%	10/15/2012 1956h	SW6020A	0 0100	< 0 0100	•
Fax (801) 263-8687		mg/L	10/10/2012 9(0h	10/12/2012 2314b	SW6020A	0 0100	< 0 0100	•
ul awal@awal-labs com	* The reporting limits	were raised due to s	ample matrix in	erferences				

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Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD

Project

	Analytical Results					TCLP META	LS Method	1311
	TCLP Prep Date	10/9/2012 1850h	Dete	Date	Method	Reporting	Analytical	
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Quel
Sait Lake City, Utah	Cadmium	mg/L to/	/11/2012 920h	10/12/2012 1837%	SW6020A	0 00250	0 0432	
84115	Lead	mg/L io	V11/2012 920h	10/17/2012 18376	SW6020A	0.0500	0 131	

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4th QUARTER EVENT



Project

INORGANIC ANALYTICAL REPORT

4TH Otr '12 Ash

AMERICAN Lab Sample ID 1212454-001

463 West 3600 South Salt Lake City, Utah 84115

Analytical Result	<u>. </u>				ICLI MILIA	TLS MICHIOU	1311
TCLP Prep Date	12/26/2012 1	00h Date	Date	Method	Reporting	Analytical	
Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual
Cadmium	mg/L	12/27/2012 1405h	12/27/2012 1930h	8W6020A	0 00250	0.335	
Lead	mg/L	12/27/2012 1405h	12/27/2012 1930h	SW6020A	0 0500	< 0 0500	

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Client Project. AMERICAN Lab Sample ID: 1212454-003

Wasatch Integrated WMD 4TH Otr '12 Ash

Contact: John Watson

WEST Client Sample ID: AS-12-04-3

ANALYTICAL Collection Date
LABORATORIES Received Date: 12/20/2012 1000h

Analytical Results

	Analytical Results					TCLP META	LS Method	1311
463 West 3600 South	TCLP Prep Date [,] Compound	12/26/2012 15 Units	500h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, Utah	Cadmium	mg/L	12/27/2012 1405k	12/27/2012 2015	SW6020A	0 00250	0 515	
84[15	Lead	mg/L	12/27/2012 1405h	12/27/2012 201 8 k	SW6020A	0 0500	0 409	

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> Kyle F Gross aboratory Director

> > Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Contact John Watson

Client.

Wasatch Integrated WMD

Project: 4TH Otr '12 Ash 1212454-002

AMERICAN Lab Sample ID 1212454-002
WEST Client Sample ID AS 12-04-2
ANALYTICAL Collection Date: 12/15/2012 800h
LABORATORIES Received Date 12/20/2012 1000l

12/20/2012 1000h

TCLP METALS Method 1311 Analytical Results TCLP Prep Date 12/26/2012 1500h Date Analytical Result Method Reporting Limit 463 West 3600 South
Salt Lake City, Utah
Cadmium
84115
Lead Compound Unita Prepared Analyzed 12/27/2012 1405h 12/27/2012 1936k 0 00250 0 536 0 251 mg/L 12/27/2012 1405h 12/27/2012 1936h SW6020A

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

All analyses applicable to the CWA. SDWA and RCRA are performed in accordance to NELAC protectors. Pertnerst sampling information is located on the statuted CCC. This report power of the activation control on the activation and the statute of the company or any mention of its statiff or incomposition of the activation and the state of the company or any mention of its statiff or incomposition of the activation and the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company or any mention of the state of the company of the state of the company or any mention of the state of the company or any mention of the state of the state of the company or any mention of the state of the company or any mention of the state of the state of the company or any mention of the state of th



INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD Client Project. 4TH Qtr '12 Ash 1212454-004

AMERICAN | Lab Sample ID | 1212454-004 | WEST | Client Sample ID | AS-12-04-4 | ANALYTICAL | Collection Date | 12/15/2012 | 900h LABORATORIES Received Date. 12/20/2012 1000h

TCLP METALS Method 1311 Analytical Results TCLP Prep Date 12/26/2012 1500h Date Date Method Analytical Reporting Limit 463 West 3600 South
Salt Lake City, Utah

84115
Lead Compound Units Prepared Analyzed Used Oual 0.00250 0.438 mg/L 12/27/2012 1405h 12/27/2012 2023h SW6020A 0 101

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Kyle F Gross Laboratory Director



Wasatch Integrated WMD

Contact John Watson

Project* 4TH Qtr '12 Ash

Client

	Analytical Results						TCLP META	LS Method	[31]
	TCLP Prep Date Compound	12/26	/2012 15 Units	OOh Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Salt Lake City, Utah			mg/L	12/27/2012 1405h	12/27/2017 20296	SW6020A	0 00250	0 404	
84115	Lead		mg/L	12/27/2012 1405h	12/27/2012 2029h	SW6020A	0 0500	0 0874	

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 1/3/2013 Page 6 of 20



INORGANIC ANALYTICAL REPORT

Contact John Watson

TCLP METALS Method 1311

Client Wasatch Integrated WMD 4TH Qtr '12 Ash Project:

	Analytical Results					ICEI METAES Mediod 1511		
	TCLP Prep Date [.] Compound	12/26/2012 1500 Units	h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Salt Lake City, Utah	Arsenic	mg/L I	2/27/7012 140%	12/21/2012 1306	SW6020A	0 0100	< 0 0100	
84115	Bartum	mg/L 1	2/27/2012 1405h	12/27/2012 2039	SW6020A	0 0500	0 436	
	Cadmium	mg/L 1	2/27/2012 1405%	12/27/2012 2039	S W6020A	0 00250	0 496	
	Chromium	mg/L I	2/27/2012 1405h	12/27/2012 2039	5W6020A	0 0100	< 0 0100	
	Lead	mg/L ∣	2/27/2012 1405h	12/27/2012 2039	SW6020A	0 0500	0 225	
	Mercury	mg/L ∣	2/27/2012 1445h	12/28/2012 8181	SW7470A	0 0100	< 0 0100	•
(801) 263-8686 Toll Free (888) 263-8686	Scienium	mg∕L I	2/27/2012 405h	12/27/2012 2039	8W6020A	0 0100	< 0 0100	
Fax (801) 263-8687	Silver	mg/L I	2/27/2912 1405b	12/27/2012 2039	SW6020A	0 0100	< 0 0100	
mail awal@awal-labs com	* The reporting limits	were raised due to so	mple matrix int	erferences				

Kyle F Gross Laboratory Director

Jose Rocha QA Officer

INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD Client Project 4TH Qtr 12 Ash

AMERICAN Lab Sample ID: 1212454-006

	Analytical Results	nalytical Results			TCLP METALS Method 131				
	TCLP Prep Date.	12/26/2012 15	OOh Date	Date	Method	Reporting	Analytical		
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual	
Salt Lake City, Utah	Cadmium	mg/L	12/27/2012 1405b	12/27/2012 20346	SW6020A	0 00250	0 469		
84115	Lead	mg/L	12/27/2012 405h	12/21/2012 2034k	SW6020A	0 0500	0,177		

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 1/3/2013



INORGANIC ANALYTICAL REPORT

Contact: John Watson

Client Wasatch Integrated WMD

Project: 4TH Otr '12 Ash

	Analytical Results					TCLP METALS Method 1311		
	TCLP Prep Date Compound	12/26/2012 150 Units	500h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Sait Lake City, Utah		mg/L	12/27/2012 1405h	12/27/2012 20446	3W6020A	0 00250	0.646	
84115	Lead	mg/L	12/27/2012 1405h	12/27/2012 2044h	SW6020A	0 0500	0 137	

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Kyle F Gross

Laboratory Director



Wastch Integrated WMD

Centact: John Watson

Project[.]

4TH Qtr 12 Ash AMERICAN Lab Sample ID: 1212454-009 WEST Client Sample ID AS-12-04-9 ANALYTICAL Collection Date: 12/15/2012 1130h
LABORATORIES Received Date: 12/20/2012 1000h

	Analytical Results	Analytical Results			TCLP METALS Method 1311			
462 West 2600 Beerl	TCLP Prep Date Compound	12/26/2012 15 Units	^{00h} Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
	463 West 3600 South Sah Lake City, Utah Cadmium mg/L 12/2/2012 146% 12/2/2012 20506 3W6020A	0 00250	0 195					
84115	Lead	mg/L	12/27/2012 1405k	12/27/2012 2050h	SW6020A	0 0500	0.0505	

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Kyle F Gross Laboratory Director



INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD

AMERICAN Lab Sample ID 1212454-011
WEST Client Sample ID AS-12-04-11
ANALYTICAL Collection Date 12/15/2012 1230h LABORATORIES Received Date 12/20/2012 1000h

Client.

Project

	Analytical Results	Analytical Results					TCLF METALS Method 1311			
	TCLP Prep Date 12/26/2012 1500h Date Date			Method	Reporting	Analytical				
463 West 3600 Souti	Compound	Units	Prepared	Analyzed	Used	Limit	Result	Qual		
Salt Lake City, Utah	ialt Lake City, Utah Cadmium mg/L 12/27/2012 14055 12/27/2012 210	12/27/2012 21006	SW6020A	0 00250	0 619					
84115	Lead	mg∕l.	12/27/2012 140%	12/27/2012 2100h	SW6020A	0 0500	1 62			

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Kyle F Gross aboratory Director



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD

Project 4TH Qtr '12 Ash

AMERICAN Lab Sample ID 43-12-04-10
WEST Client Sample ID 45-12-04-10
ANALYTICAL Collection Date 12/15/2012 1200h
LABORATORIES Received Date 12/20/2012 1000h

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alyticai	
	ual
0 262	
0 212	
•	Result Q 0 262

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date: 1/2/013 Page 11 of 20

Report Date: 1/2/013 Page 11 o



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD Client Project: 4TH Qtr '12 Ash

| AMERICAN | Lab Sample ID | 1212454-012 | WEST | Client Sample ID | AS-12-04-12 | ANALYTICAL | Collection Date | LABORATORIES | Received Date | 12206/2012 | 1000h |

	Analytical Results				TCLP METALS Method 1311			
462 W-4 2600 S4	TCLP Prep Date Compound		00h Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Salt Lake City, Utah 84115		mg/L	12/27/2012 1405b	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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Laboratory Director

Iose Roche



4TH Otr '12 Ash

Prolect.

	Analytical Results	Analytical Results				TCLP METALS Method 13				
	TCLP Prep Date: Compound	12/26/2012 15 Units	^{00h} Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual		
463 West 3600 South Salt Lake City, Utah		mg/L	12/27/2012 1405b	12/28/2012 1310h	SW6020A	0 0100	< 0 0100			
84115	Barium	m g ∕L	12/27/2012 14056	12/27/2012 21276	SW6020A	0 0500	0 376			
	Cadmium	mg/L	12/27/2012 14051	12/27/2012 2127h	SW6020A	0 00250	0.555			
	Chromium	mg/L	12/27/2012 14056	12/27/2012 2127h	SW6020A	0 0100	< 0 0100			
	Lead	mg/L	12/27/2012 1405h	12/27/2012 21274	SW6020A	0 0500	0 174			
	Mercury	mg/L	12/27/2012 14456	12/28/2012 \$25k	SW7470A	0 0100	< 0 0100	•		
801) 263-8686 Toll Free (888) 263-8686	Sclenium	mg∕L	12/27/2012 14059	12/27/2012 2127%	SW6020A	0 0100	< 0 0100			
Fax (801) 263-8687	Silver	mg∕t.	12/27/2012 14059	12/27/2012 2127h	SW6020A	0 0100	< 0 0100			
ani awal@awal-labs com	* The reporting limits	were raised due to	sample matrix tel	erferences						

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Jose Rocha QA Officer

Report Date 1/3/2013 Page 14 of 20



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD Client

	Analytical Results	1				ALS Method	od 1311	
	TCLP Prep Date	2/26/20 2 : Unita	Date	Date	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South	Compound	Units	Prepared	Analyzed	Used	Limit	Kaun	Quan
Salt Lake City, Utah	Arsenic	mg/L	12/27/2012 1405h	12/28/2012 1315h	SW6020A	0 0 1 0 0	< 0 0100	
84115	Barium	mg/L	12/27/2012 1405h	12/27/2012 2136h	SW6020A	0 0500	0 428	
	Cadmium	mg/L	12/27/2012 405h	2/27/20 2 213 m	5W6020A	0 00250	0.583	
	Chromium	mg/L	12/27/2012 1405h	12/27/2012 213 5 h	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 14456	12/28/2012 #30b	SW7470A	0 0 1 0 0	< 0 0100	
(801) 263-8686 Toll Free (888) 263-8686	Selenium	mg/L	12/27/2012 1403h	12/27/2012 2138h	SW6020A	0 0100	< 0 0100	
Fax (801) 263-8687	Silver	mg/L	12/27/2012 1405h	12/27/2012 213 6 h	5W6020A	0 0100	< 0 0100	
ail awal@awal-labs com	The reporting limits		sample matrix int	erferences				

Kyle F Gross Laboratory Director

Jose Rocha QA Officer



INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD 4TH Otr 12 Ash

Project

	Analytical Results				TCLP METALS Method 1311			
	TCLP Prep Date	12/26/2012 15	2/26/2012 1500h Date		Method	Reporting	leporting Analytical	
est 3600 South	Compound	Units	Prepared	Date Analyzed	Used	Limit	Result	Qual
ake City, Utah	Cadmium	mg/L	12/27/2012 1405h	12/27/2012 21326	5W6020A	0 00250	0.941	
84115	Lead	mg/L	12/27/2012 1405h	12/27/2012 2132h	SW6020A	0 0500	0 0714	

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

Kyle F Gross Laboratory Director

ATTACHMENT II

EXTRACTION FLUID DETERMINATION LOGS

Extraction Start I Starting Analyst	Date 72	<u>s-12-</u>	Extrac Ending
Start Time	16:00	17,00	Stop T
Prep Batch ID	Seeba		Time t

Extraction End D Ending Analyst	ate. 7-21-12
Stop Time	11:10
Time tumbled (Re	q 18 ± 2 hours) 19 19

Room Temperature (Req 23 ± 2°C)	25/24
Tumbler RPM (Req. 30 ± 2 rpm)	30
Oven Temp (Req 100±20°C)	N/ la_
Balance ID Courtney	-

Fluid ID ¥ 1	FCLP-F1-120719
Thermometer II Balance ID A	O 65, Hot Flash

		Pre-Extr	action		Extraction					Post Extraction	
	Sample ID#	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)			ount (g) olid Wèight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
¥	MB-Tap-20084	metals	NA	NH	244	Hlaq	/	MA:	①r II	2000	14
	1207205-0034	metals	9	3	100	1009	/	Mr.	Oor II	2000	7
	1207205-005A	metals	(0	5	(%)	و00ا	/	NMF	Dor 11	2000	7
	1207205-007A	metals	lo	4	100	l∞g	/	NH	Or II	<i>⊋∞</i> ∞	7
	1207205-009A	metals	9	3	, (00	long	/	Mr	O₀r II	2000	7
	1207205-011A	metals	જ	. 4	100	(00g	/	Ma	(I)or 11	2000	7
	1207205-0124	metals	8	¥	100	1009	/	Nh	Oor 11	2000	7
	1207205-013A	metals	7	4	100	(000	/	NA	; CPor II	2000	7
	1207205-0144	wedut s	E	4	loo	1009	/	MA	(Î) îr II	2000	7
4	MB-TC49-20055	metals	N4	NA	MA	244_	/	N/4	I or 🗘	2000	NH
	1207327-001A	medals	4	6	l o o	1009	/	NA	l or 🕦	٥٠٠٥	4
	1207327-00ZA	weduls	Ť	G	100	w	/	ith	I or G D	2000	6
	1207327-0034	metals	6	4	lob	1009	/	244-	I on (D)	2000	6

Comments 4 - Telp-F2-120720 eff 2.89

NA

NA

NA

NA

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American West Analytical Laboratories
TCLP/SPLP Extraction for EPA Method 1311/1312

7-1512	7-16-	12		,,		
Extraction Start Date	Extraction End Date	<u> </u>	Room Temperature (Req 23 ±	2°C) 22-4 21.4	Fluid ID	See below
Starting Analyst	Ending Analyst		Tumbler RPM (Req 30 ± 2 rps	m) <u>30</u>	Fluid pH	<u>Santadow</u>
Start Time ((a:30	Stop Time. 030		Oven Temp (Req 100±20°C)	N4	Thermometer	ID 65, Hot Flash
Prep Batch ID See L. L.	Time tumbled (Req 18 ± 2 hours)	18	Balance ID Courtney		Balance ID.	Ashley
·· 						

		Pre-Ext	raction			Extraction					Post Extraction
Sa	mple ID#	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	-		ount (g) olid Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
MB-TO	up 19919	metals	NA	NH	NA	ИН	/	N4	(Jor II	9 000	NH
12071	83-001F	me Ads	+0.5	X 7-11-12	92.3	(50 258 4 9 13 12		92.39 23.19	(Dor II	1846	5
12072	05 - 001A	hetals	10	4	100	150	/	NLA	Øor II	2100	٦
12072	4500 -20	metals	9	4	(80	loo	/	Nb	O _{r II}	200	7
12072	DF-0044	me tals	10	3	loo	و∞ا	/	NH	O or II	2009	8
12072	05-0064	metals	10	3	loo	100,	/	HL	(Dr 11	200	8
12=72	008A	m tals	10	4	اهم	loog	/	NH	⊙ r II	2.000	7
12077	205-0104	me tale	9	3	loo	600	/	NA	Oor 11	≥∞	7
1207	205-0154	me tals	9	5	loo	1009	/	Nr	①or II	2080	8
MB-TO	up-19914	ZHE	NA-	N/4	NA	NIL	/	24	①or II	500	NIA
12071	83 - 001E	ZHE	2	7	92:3	259	7	23.14	⊕ r Ⅱ	462	NU
12072	105-011A	246	N4-	NA	100	259	/	NH	(Dor II	045	N4
				-	7/15	/2	-/-		l or U		

Comments	4- Tap- F1- 120705	e# 4 88
	8. TCL4- FIE- 120711	pH 4.91
	, <u>N</u> /4	·
	NA-	

Page 29 of 50

Start Inne	Stop	ction End Date g Analyst Fime tumbled (Req	(2110		Room Temperature (Req 23 ± Tumbler RPM (Req 30 ± 2 rpn Oven Temp (Req 100±20°C) Balance ID <u>Courtney</u>	2°C) 271 4 n) 30	Fluid ID Fluid pH Thermometer ID Balance ID Ashle		
	Pre-Ext	raction				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)	Fmal pH	1
1209297-0124	metals	8	4	100	100, / 14h	⊘ r II	2300	4447	1-20
1209297-0144	whats	8	4	100	100g / N/A	Orn	oval	7	
1209297 0154	metals	8	4	(00	1005 / NA	Or II	200	7	
					/	l or II			
				7	/	l or II			
			$\angle l$	7	/	l or II			
			0 ~		0//	l or ii			
					7/24/	l or li			
					THE	I or II			
					/	Joseff T			
					/	I or II			
					/	l or ll			

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l or li

American West Analytical Laboratories TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date	Ending Analyst	Room Temperature (Req 23 ± 2°C) 22 21 Tumbler RPM (Req 30 ± 2 rpm) 30 Oven Temp (Req 100±20°C) Balance ID Courtney	Fluid ID Fluid pH Thermometer ID 65, Hot Flash Balance ID Ashley
-----------------------	----------------	--	--

	Pre-Extr	raction			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-Tap-21312	melals	NA	NA	NA	M/ M/	(Dor 11	<u> جو جو</u>	NH
1209297-0014	wefals	9	2	100	100g / N/4	(Dor 11	2110	7
1209297-00ZA	mlus	8	2	100	100, / N/A	(Dor II	2000	7_
1209297-003A	metals	9	2	100	100g / NL	O₃r II	⊃ ∞∞	7
1209297-0044	netals	9	2	100	100, / NA	Oor II	2000	7
1209217-005A	metals	9	3	100	100, / NA	(Dor 11	200	7
1209297 - 0064	mhal((0	2	(9-0	100g / N/A	(}or II	Ses⊂	7
1209297 - 007A	metals	9	3	100	1000 / N/A	Oor II	2000	7
1209297-0084	vidus	9	3	१००	100, / NA	Oor Ⅱ	2 pp0	7
1209297 - 009A	metals	9	2	100	100g / NA	(Dor II	2000	7
1209297-0104	metals	9	Z	(00	100s / NA	Dor 11	2•%	7
1209297 - 011A	wetals	8	3	100	100, / NA	Oor II	2000	フ
1209297 - OIZA	metals	8	3	(00)	100g / MA	Óor II	50.60	7

Comments	/la
	yla,
	<u> </u>
	NA CONTRACTOR OF THE CONTRACTO

Extraction Star	t Date	10-9-12
Starting Analys	st	h
Start Time	18:5	P
Prep Batch ID	21	C1-8

Extraction End Date 10-12 Ending Analyst Stop Time 11:00
Time tumbled (Req 18 ± 2 hours) 16

Room Temperature (Req. 23 ± 2°C) 223/21/21/ Tumbler RPM (Req. 30 ± 2 rpm). 22/22/ Oven Temp (Req. 100±20°C) NIA-Balance ID. Courtney

	Pre-Ext	action			Post Extraction			
Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Amount (g) Total Weight/Solid Weig	Extraction Fluid	Extraction Fluid Added (mL)	Fınal pH
MB-Tap. 21568	metals	.Nh	44	44	Hb / Nh	(Dor II	2000	NH
1210097- 001A	metals	9	4	100	100g / N/A	(Î)от П	2000	7
1210097-002A	metals	ŀO	<u></u>	000}	100g / N/A	(Dr II	2000	7
1210097-0044	metals	9	5	100	100, / 46	Oor 11	2000	7
1210097-005A	metals	9	5	100	1000 / NA	Gor II	2000	7
1210097-0064	metala	9	5	100	100g / NA	Оот П	2000	7
1210097-0074	metals	9	2	100	100, / NA	Oor II	2000	7
1210097-008A	metals	9	4	00	1000 / NA	Ø or II	2000	8
1210097-0094	metals	9	5	100	1009 / 14	Oor II	2000	7
1210097-011A	metals	10	5	100	100g / N/4	(€)or II	2000	7
1210097-0124	metals	10	5	100	100g / N/A	O or Il	2000	ラー
1210097-0134	metals	9	4	100	100 / NA	Oor II	5000	7
1210097-614	metals	10	5	100	100, / NA	Oor II	2000	8

Comments	7	continual	gn	next	page.	
			M		1 0	
			4			
				-		

Page 2 of 50

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American West Analytical Laboratories
TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date	10.8-12
Starting Analyst	4
Start Tune	1100
Prep Batch ID 50	كيمامط

Extraction End Date | 10-9-12 |
Ending Analyst | 10: 05 |
Time tumbled (Req | 18 ± 2 hours) | 17

Room Temperature (Req 23 ± 2°C)	22.4/2 2.1
Tumbler RPM (Req 30 ± 2 rpm)	30
Oven Temp (Req 100±20°C)	10 3°
Balance ID	Courtney

Fluid ID TUP-FI-12934 Agree Fluid pH 10 91 120 140 1476 478
Thermometer ID 65. Hot Flash
Balance ID Ashley

		Pre-Extr	action						Extraction		Post Extraction
	Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)			ount (g) ohd Weight	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
	MB-TCLP. 21537	metals	44	414	44	4/4	7	44	⊘ or II	2000	44
\rightarrow	1210048-0034	metals	7	3	100	1009	/	HL	Or II	2000	8
	1210097 - 0034	metals	9	5	100	loog	/	44	Ø or Ⅱ	2000	7
	1210097-0104	metals	9	3	100	100	/	NA	O or 11	2000	7
1 KG	1210097-0154	metals	9	5	100	وها	/	144	Оот П	20∞	7
14 17	1210 109-0024	metals	5	5	100	lmg	/	NH	Øor II	210	6
77	1210062-601A	metals	4	2	86.2	1005	/	84.29	(Dor II	1724	5
ک	MB-1CLP 21536	netus	N/-	14×	74	NH	/	44-	Oor II	200	KH
	/=	10/9/12					/	_	I or II		
				l			/,	,	I or II		
					J		1/6	19/10	I or II		
							/		I or II		
-							/		I or II		

Comments No. Ala.

American West Analytical Laboratories

		T	CLP/SPLI	P Extraction	for EPA Method 1311.	/1312		
Extraction Start Date 2 Starting Analyst Start Time. Sign	Stop	ction End Date ig Analyst Time: tumbled (Req.	1:28		Room Temperature (Req 23 ± fumbler RPM (Req 30 ± 2 rp oven Temp (Req 100±20°C) Balance ID Courtney	m)	Fluid pH	0- F1- 121226 4-99 65. Hot Flash
	Pre-Ext	raction				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
мв тар 22895	metals	Nh	44	44	N4 / N4	Oor II	2000	NH
1212454- 001A	mutals	9	3	100	100, / Ma	O or II	2000	8
1212454- 0024	netals	૪	2.	(00)	100; / Hk	O or II	مەمد	7
1212454-003A	metals	9	3	loo	100g / Wh	Oor II	2000	7
1212454 0044	metale	9	3	(00	100, / 4/4	Oor II	2000	7
1212454- 005A	medals	lo	5	loo	100s / NA	Oor 11	2010	8 '
1212454 OOLA	metals	g.	3	loo	ماله / وها	Oor II	200	8
1212454- 007A	motals	9	2	loo	100, / Nh	О̂ог П	2000	8
1212454-0084	medals	9	4	loo	100, / NA	(J) or II	2000	8

Comments A 12.26-12

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metals

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1212454- 009A

1212454 0104

1212404-0114

1212454-0124

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American West Analytical Laboratories TCLP/SPLP Extraction for EPA Method 1311/1312

Extraction Start Date Starting Analyst Start Time: \$\mathbb{G}\$ \$\mathbb{G}\$	Extraction End Date 10-10-12 Ending Analyst Stop Time. (1:00 Time tumbled (Req 18 ± 2 hours) 16	Room Temperature (Req. 23 ± 2°C). 238 / 24 Tumbler RPM (Req. 30 ± 2 rpm). Oven Temp (Req. 100±20°C). Balance ID Courtney	Fluid ID. Sa. Fluid pH Sa. Thermometer ID 65 Balance ID Ashley
--	---	---	--

		Pre-Ext	raction					Extraction		Post Extraction
	Sample ID #	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample Am Total Weight/S		Extraction Fluid	Extraction Fluid Added (mL)	Fınal pH
r	1210143-0024	metals	5	5	loo	100, /	44	⊘ r II	2800	5
۲	1210144-0014	metals	6	2	100	100,	11/4	(јот П	2000	5
⊢	MB-TUP 21569		Nh	N/A	Nh	N4 /	NA	I or ①	2000	N4
Г	1210144-0024	metals	Ę.	Ç	100	100/	Nh	I or (1)	2000	4
ľ						/		I or II		
ľ						/		I or II		
-				1		/		I or II		
ľ				1/1		/		I or II		
				ac		0/2/1		I or II		
ľ						1 474		I or II		
l						7		I or II		
ľ	·					/		I or II		
Ī					_	/		I or II		

Comments	*	contid	fram	Page 2 - PB- 215/18	Telp-F1-121	الم 200	4.88	
				0- TE	2- F2 - 121009	PH. 2.83		
				N/A-		7		
			- 1	NA				
			-,					

	10.00.70	41	الك المسا
Extraction Start Date 12-16-10	Extraction End Date 12-27-12	Room Temperature (Req 23 ± 2°C) 21.0	Fluid ID Telf- F1- +22612 12.
Starting Analyst	Ending Analyst	Tumbler RPM (Req. $30 \pm 2 \text{ rpm}$)	Fluid pH
Start Time 15.00	Stop Time 9:58	Oven Temp (Req 100±20°C)	Thermometer ID 65, Flot Flash
Prep Batch ID 22895	Time tumbled (Reg 18 ± 2 hours)	Balance ID Courtney	Balance ID Ashley

	Pre-Ext	action					Extraction		Post Extraction
Sample ID#	Semi/Pest/Herb ZHE/Metals	Initial pH	Adjusted pH	Percent Solids (%)	Sample A	Amount (g) I/Solid Weig	Extraction Fluid	Extraction Fluid Added (mL)	Final pH
1212454 - 0134	meshig	9	4	<i>a</i> 0)	100,	/ NL	Øor 11	200	8
lerzysy- orga	made	9	4	100	1000	ا بالا	①or II	2000	8
1212454-0154	netall	9	ے	100	100,	/ на	Ŵr II	2000	7
1212483-001c	metals	4	5	(00)	100,	/ Nh	Oor II	2000	7
1212484-0011	metals	9	2_	100	1009	/ NH	Obr II	3	51,
1212452-0010	metals	5	5	100	1009	NI	(Dor 11	2000	5
					,	/	l or II		
					,	/	l or II		
			1-		,	/	l or ll		
		7	57	7	/	/	l or II		
				- 0	defu		I or II	1	
					0		l or II		
					/	/	l or II		

Comments	*	Contined	from	Jagt	O44C	1	12-24-62	
					المال			
					NA			
					NA			

ATTACHMENT III

CHAIN OF CUSTODY

Chent <i>(Jasotch Integra)</i> Address 3404 N. 650 E	• •	<u> </u>	A			A.	NALYT	WEST ICAL	CU	STODY		Page	``	1207205 at 2	
layton Ut	840	4/_					ORATO			263-8686		•	nd Time	(Circle One)	
Cht State Phone 80-644-5603 Fax	ı Zıp	P					ke City	Utah F	ax (801)	263-8686 263-8687			•••	4 day 5 day Sandar	
Contact John Watson				_	т т					al@awal-labs.	.com			٦	
<u> </u>	ero			-		3		TESTS	REQUI	RED	\dashv	QC LE	VEL	LABORATORY USE ONLY	
Project Name 2nd GHr 12 A	sh Samo	125		1) F		2 3					1 2	2+	1 Shipped or hand calmared	
Project Number/P O #			Date/Time	1	Number of Containers (Total)	METALS	→ §	4						2 Ambient or Chilled	
Sampler Name	011		Collected		Sel	7	ч :	1 1				3 3+	4	11 '	
			1 . '	Į₽	ğ	25	74.5							3 Temperature <u>Z-f. 3</u>	
Sample ID)	_,		4	Z	티		\	+-		┝╌┼	СОММЕ	ENTS	4 Received Broken/Leaking (Improperly Sealed)	
AS-12-02-013			7/11/12	+	₩	┥	쑀	╂┼-	╁┼	-}-}- }	\vdash			Notes 🖎	
- 14			7/11/12 16/11/2 92	+	++	J	<u> </u>	+	++	- - -	$\vdash \uparrow$			5 Properly Preserved	
- 15			16/A/12 92	4	H	겍	_	+	 		\vdash		-	Checked at Bench	
······································			'	1	П	7	$\neg \vdash$							Notes	
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				\perp	П						Ц			8 Received Within Holding Times	
			ļ	1	\sqcup	\dashv		1	14		\sqcup			Auglies	
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			1	+	╁┼	-	+	+ +	++	+	\vdash			COC Tape Was	
			† `	+	\forall	+	\dashv	┿┼	++	++-1	\dashv			1 Present on Outer	
Relinquis Sy Signature	7/13/12	Received	By Signature	-		Dete	•	Specia	l Instruc	ctions		====		Package Y N (NA	
DDIN'T NAME	7/13/12 Time 8010	PRINTINA	ME -			Time	<u>-15-12</u>							2 Unbroken on Outer	
Relinquished By Signature	Date		By Signature	_	===	Date	<u> </u>	;├──						Package N NA	
PRINT NAME	Time	PRINT NA				Time								3 Present on Sample (NA)	
	Date	<u> </u>	By Signeture		==	Date		ļ				· · · · · · · · · · · · · · · · · · ·		4 Unbroken on Sample	
Delinourthed Bur Connetus	Dem	Located						и						L Y N (NA	
Relinquished By Signature	Time	ODBOT NA	<u> </u>			_									
PRINT NAME	Time	PRINT NA	ME			Time	•							Discrepancies Between Sample Lebels and COC Record?	
PRINT NAME PRINT NAME Client Wasarch Integrate	Date Time	Received PRINT NA	ME By Signature			Time	AMERI W	EST CAL		AIN OF STODY		Lab Sample	Set #	Olscrepancies Between Sample Labels and COC Record? Notes Notes 1207205	
PRINT NAME Relinquished By Signature PRINT NAME Client Wasatch Integration Address 3404 N. 650 E	Dere Time	PRINT NA	ME By Signature		463	Time Time AN ABO Wes	AMERI W MALYTI DRATOI	EST CAL RIES	(801) 2 (888) 2	STODY 263-8686 263-8686		Page Turn Arour	l nd Time (Sample Labels and COC Record? Notes N 1207205 of 2 Circle One)	
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Address 3404 N. GO E ANTON 1)+ City State Phone 201-104-5403 Fax B Contact Why 112-5403 E-mail John In (of 1011000) Project Name 2 rd (14 1/2) Project Number/P 0 # Sampler Name Reserved Area N Sample ID AS-12-03-01 -02 -03 -04 -05 -06 -07 -08 -09 -10 -11 -12 Reinguished By, Signature PRINT NAME Reinguished By, Signature	Seto 21 21 21 21 21 21 21 2	Received I	Date/Time Collected A/p/12 0913	7 5 0 5 5	LA 4633 Salt	AM ANALA BORA A BORA A Lake C 4d > 17 d 10 11 X X X X X X X X X X X X X X X X X	WES' YTICAL TORIE	T L S S hh h Fax T S T E E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E E M T S T E M T E M T S T E M T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E	CU((801)) (888) (801) 2 (801)	253-8686 263-8686 263-8687 1(@awal-l	Y	Page	round Time 2 day 3 day LEVEL 2 2+ 3+ 4	of Circle One) y 4 day 5 day Stand LABORATORY USE ON SAMPLES WERE 1 Shipped or hand delive Notes 2 Ambient or Chilled Notes 3 Temperature 4 Received Broken/Leel (Improperly Sealed) Y Notes 5 Properly Preserved Y Sealed) Y Notes 6 Received Within Holding Times Y Notes COC Tepe Was 1 Present on Outer Package Y N
Address 3.404 N. GD & (A) TON 1) + Cay State Phone 201-104 5403 Fax B Contact him 112 5403 Fright In	Sto 2p 2p 2p 2p 2p 2p 2p 2	Received PRINT NA	Date/Time Collected 4/9/12 0913 A94/8 1/27 1105 1307 143 1509 1539 15	7 5 0 5 5	LAA 463 Y Saitt	AMALANS CONTROL OF AND	WES' YTICAL TORIE	T L S S hh h Fax T S T E E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E E M T S T E M T E M T S T E M T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E	CU((801)) (888) (801) 2 (801)	253-8686 263-8686 263-8687 1(@awal-l	Y	Page	round Time 2 day 3 day LEVEL 2 2+ 3+ 4	of Circle One) y 4 day 5 day Stand LABORATORY USE ON SAMPLES WERE 1 Shipped or hand delivit Notes 2 Ambient or Chilled Notes 3 Temperature 4 Received Broken/Leek (Improperly Sealed) Y Notes 5 Properly Preserved Y Notes 6 Received Within Holding Times Y Notes 1 Present on Outer Package Y N 2 Unbroken on Outer Package Y N 4 Unbroken on Sample Y N 4 Unbroken on Sample
Address 3404 N. GD & (A) TON 1) + Cay State Phone 201-104-5403 Fax B Contact han 112-5003 Fax B Contact han 122-503 Project Name 270 (24 22) 122-60 Project Number/P 0 # Sample ID AS-12-03-01 -07 -08 -09 -10 -11 -12 Reingulahed By Signature PRINT NAME Taken		Received I	Date/Time Collected 2/p/12 0913	7 5 0 5 5	LAA 463 V Saitt	AM ANALAN COLOR NATURE OF A CO	WES' YTICAL TORIE	T L S S hh h Fax T S T E E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E E M T S T E M T E M T S T E M T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E	CU((801)) (888) (801) 2 (801)	253-8686 263-8686 263-8687 1(@awal-l	Y	Page	round Time 2 day 3 day LEVEL 2 2+ 3+ 4	of Circle One) 4 day 5 day Stand LABORATORY USE ON SAMPLES WERE 1 Shipped or hand delivit Notes 2 Ambient or Chilled Notes 3 Temperature 4 Received Broker/Leek (Improperly Sealed) Y Notes 5 Properly Preserved Y Checked at Bench Notes 6 Received Within Holding Times Notes 1 Present on Outer Package Y N 2 Unbroken on Outer Package Y N 3 Present on Sample
Address 3.404 N. GD & (A) TON 1) + Cay State Phone 201-104 5403 Fax B Contact him 112 5403 Fright In	Sto 2p 2p 2p 2p 2p 2p 2p 2	Received PRINT NA	Date/Time Collected 2/p/12 0913	7 5 0 5 5	LAA 463 V Saitt	AMALANS CONTROL OF AND	WES' YTICAL TORIE	T L S S hh h Fax T S T E E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E E M T S T E M T E M T S T E M T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E M T S T E	CU((801)) (888) (801) 2 (801)	253-8686 263-8686 263-8687 1(@awal-l	Y	Page	round Time 2 day 3 day LEVEL 2 2+ 3+ 4	of Circle One) y 4 day 5 day Stand LABORATORY USE ON SAMPLES WERE 1 Shipped or hand delivit Notes 2 Ambient or Chilled Notes 3 Temperature 4 Received Broken/Leek (Improperly Sealed) Y Notes 5 Properly Preserved Y Notes 6 Received Within Holding Times Y Notes 1 Present on Outer Package Y N 2 Unbroken on Outer Package Y N 4 Unbroken on Sample Y N 4 Unbroken on Sample

Client Wasatch Integrated Waste Address 3404 N. C50 E. LAYTON UT 840 Phone 80-614-5603 Fax 80-644-5 Contact, JUHN WASSON		A		40	LAB 63 W	AM ANAL BORA 'est 36	YTI TOI 500 S City,	CAN EST CAL UES oath Utah	Fax (Emai	CHA CUS (801) 26 (888) 26 (801) 26 (1:awak	IN TO 3-86 3-86 3-86	<i>OF</i> DY 86 86 87	•	Lab Sample Set a	ne (0	12 24 5 4 of Circle One) 4 day 5 day Standard
E-mail John & W. W. W. a. 1074 Project Name 44 44 112 Ach Project Number/P O # Sampler Name Joh Corbus Sample ID		Date/Time Collected	Matrix	Number of Contemers (Total)	TCLY HEDUS ACEA	54 CA #PB	Т	EST	S RE	QUIRE	D			QC LEVEL 1 2 (2+) 3 3+ 4 COMMENTS)	LABORATORY USE ONLY SAMPLES WERE 1 Shipped or flefd delivered Notes Ambient Chilled Notes 3 Temperature 4 Received Broken/Leaking
		12/15/12 0730 0800 0800 0800 0800				XXXXX										(Improperly Bealant) Notes 5 Properly Preserved N Chacked at Banch Notes:
- 6 - 7 - 8 - 9 - 10		1000 1000 1100 1120 1200			X	X X X										8 Received Within Rakling Times N
Refinquished By Signature Date Through PRINT NAME Through Signature Date 12 2017	Repaired Received	120 1300 Spinatural Securation		===	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	X 16/01 20-20-	2 (z	120	in in inch	structi	ons du	2	, IV	itial and without		COC Tape Was 1 Present on Outer Package N NA 2 Unbroken on Outer Package N NA 3 Present on Sample
FRINT NAME FRINT NAME FRIEDRICH NAME		MAD SAMPLE STATE STAT	ربر بربر	2	Tig De [2]	20/1 0:0	ر و	-(יאמי אינעי	78 Miz	2 7	RUS	15	aved to		4 Unbroken on Sample RA Decrepance Between Sample Labels and COC Record' Notice
	J				_ـــــ									, , , , , , , , , , , , , , , , , , , 		

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Client Dasatch Integrated White Address 3404 N. 650 E LANTON UT R4041 Phone 801.644-5603 Fax 80-614-3633 Contact John WATSON		\ 	LA1 463 W	NALYI BORAT('est 3600 ake City	WEST ICAL PRIES South Utah 1 84115	(80) (88) (82) (80) (80)	ral@aw	DY 86 86		of2
Project Name 4th Oth 12 Ash Project Number/P O # Sampler Name	Date/Time Collected	Matrix	TELP METALS BLEED	۾	TÉSTS	REQU	RED		1 2 (2+) 3 3+ 4 COMMENTS	LABORATORY USE ONLY SAMPLES WERE: 1 Stopped or had delivered Notes. 2 Ambient or Chilliod Notes 3 Temperature [L.J.** 4 Received Broken/Legipne
A5-12-04-13 - 14 - 15	12/15/12 1330		×	×						Received Broken/Leaking (Improperly Seaking) Notes Properly Preserved (Y N Official at Bench Y N Notes.
										6 Received Within Stigling Times V N
										COC Tape Was: 1 Present on Outer Package
PRINT NAME OF STATE O	NT NAME NOT THE STATE OF THE S		TI D	1/18/12 10:00	201	ol a	uctions Tel		fighting	3 Present on Sample KA
PRINTING SPARCES TIME OF PRI	POTRAL STARKS WAS BY SIgnature NOTROL STARKS NOTR	<u></u>	7	120/12 0:00						4 Unbroken on Sample NA Discrepancies Between Sample Labets and COC Record? Acres

ATTACHMENT IV

DUPLICATE SAMPLE ANALYSIS



Client. 2nd Qtr' 12 Ash Samples AMERICAN LA

WEST CI ANALYTICAL Co LABORATORIES Re

Wasatch Integrated WMD Contect John Watson

ab Sample ID	1207205-0	2
lient Somple ID	AS-12-02-0	02
ollection Date:	6/19/2012	921h
eceived Date	7/13/2012	RIOh

	Analytical Results	ı				ICLF ME17	ALS MEMON	1311
	TCLP Prep Date Compound	7/15/2012 1630 Units	Date Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
463 West 3600 South Sall Lake City, Utah	Arsenic	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0100	< 0 0100	•
84115	Barium	mg/L	7/16/2012 12 0h	7/18/20 2 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 12106	7/18/2012 123.54	SW6010C	0 0100	< 0.0100	
	Lead	mg/L	7/16/2012 12:106	7/17/2012 1402h	SW6020A	0 0500	< 0.0500	٠
	Mercury	mg/L	7/16/2012 15306	7/17/2012 80%	SW7470A	0 0100	< 0.0100	٠
(\$01) 263-8686	Selenium	mg/L	7/16/2012 1210b	7/17/2012 1402h	SW6020A	0 0100	< 0.0100	٠
Free (888) 263-8686 Fax (801) 263-8687	Silver	mg/L	7/16/2012 1210h	7/17/2012 1402h	SW6020A	0 0100	< 0 0100	•
awal@awal-labs com	* The reporting limits	were raised the to so	imple murtis into	erferences				

Toll Free (888) 263 Fax (801) 263 anil awal@awal-lab

Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Report Date 7/30/2012 Page 3 of 28

INORGANIC ANALYTICAL REPORT

Wasatch Integrated WMD

2nd Otr (A) '12 AMERICAN Lab Sample ID 1209297-013

	Analytical Results	1				TCLP META	ALS Method	1311
	TCLP Prep Date Compound	9/26/2012 2010h Units	Date Prepared	Dute Analyzed	Method Used	Reporting Limit	Analytical Result	Quel
463 West 3600 South Salt Lake City, Utah	Arsenic	mg/L 9	V28/2012 1045h	O/1/2012 132	sw6020A	0 0100	< 0 0100	•
84115	Велит	mg/L 9	1/28/2012 1045h	9/10/2012 000	2h SW6020A	0 0500	0.515	
	Cadmium	mg/L 9	-28/20 2 1043h	930/2012 000	2h SW6020A	0 00250	0 563	
r	Chromium	mg/L. ⋖	28/2012 1045h	9/30/2012 000	2h SW6020A	0 0 1 0 0	< 0 0100	•
	Lead	mg/l. S	28/2012 1045h	10/1/2012 132	19h SW6020A	0 0500	0 976	
	Mercury	mg/L s	W27/2012 1630h	928/2012 121	In SW7470A	0 0100	< 0 0100	٠
(801) 263-8686	Selenium	mg/L s	W21W2012 1045h	9°0/20 2 000	2h SW6020A	0 0 1 0 0	< 0 0100	
Toli Free (888) 263-8686 Fax (801) 263-8687	Silver	mg/L s	7/21/2012 1045h	9/10/2012 000	22k SW6020A	0 0 1 0 0	< 0 0100	•
-mail awal@awal-labs com	* The reporting limits	were raised due to sai	mple man ix int	erferences	_			

Kyle F Gross Laboratory Director

Jose Rocha QA Officer

Renon Date 10/2/2012 Page 14 of 20

Contact John Watson

TOUR METAL C Marked 1211

INORGANIC ANALYTICAL REPORT

Client Wasatch Integrated WMD 4TH Qtr '12 Ash

	Analytical Results	ı				TCLP META	LS Method	1311
	TCLP Prep Date	12/26/2012 15	Date	Date	Method	Reporting	Analytical	
463 West 3600 South	Compound	Units	Prepared	Anslyzed	Used	Limit	Result	Qual
Salt Lake City, Utah		mg/L	12/27/2012 1405k	12'2 1 /2012 1310h	SW6020A	0 0100	< 0 0100	
84115	Barium	mg/L	12/27/2012 1405k	12/27/2012 2127h	SW6020A	0 0500	0.376	
	Cadmium	mg/L	12/27/2012 1405h	12/27/2012 2127h	5W6020A	0 00250	0 555	
	Chromium	mg/L	12/27/2012 1405h	12/27/2012 2127h	5W6020A	0 0100	< 0 0100	
	Lead	mg/L	12/27/2012 1405h	12/27/2012 2127%	SW6020A	0 0500	0 174	
	Mercury	mg/L	12/27/2012 1445h	12/28/2012 #25h	SW7470A	0 0100	< 0 0100	٠
801) 263-8686 Foll Free (888) 263-8686	Selenium	mg/L	12/27/2012 1405h	12/27/2012 2127h	SW6020A	0 0100	< 0 0100	
Fax (801) 263-8687		mg/L	12/27/2012 1405h	12/27/2012 2127h	S W6020 A	0 0100	< 0 0100	

awal@awal-labs com The reporting limits were raised due to sample matrix interferences

Kyle F Gross Laboratory Director

Jose Rocha QA Officer

TCLP METALS Method 1311



INORGANIC ANALYTICAL REPORT

Contact John Watson

Wasatch Integrated WMD Client Project.

AMERICAN Lab Sample ID 1210097-03 WEST Client Sample ID 45-12-03-03 ANALYTICAL Collection Date LabORATORIES Received Date 105/2012 1323h

	WHEN THE BESTELL							
462 Wast 2600 Caret	TCLP Prep Date Compound	10/8/2012 1700 Units	h Dete Prepared	Date Analyzed	Method Used	Reporting Limit	Analytical Result	Qual
Salt Lake City, Utah	Arsenic	ng/L	10/10/2012 910h	10/12/2012 2210h	SW6020A	0 0100	< 0 0100	٠
84115	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	10r12/2012 2210h	SW6020A	0 0100	0 0246	
	Lead	mg/L	10/10/2012 910%	10/12/2012 2210h	SW6020A	0 0500	0 103	
(001) 262 0606	Mercury	mg/L	10/9/2012 13106	10/10/2012 1036h	SW7470A	0 0100	< 0 0100	٠
801) 263-8686 Foli Pree (888) 263-8686		mg/L	10/10/2012 910h	10/15/2012 192 86	SW6020A	0 0100	< 0 0100	•
Fax (801) 263-8687	Silver	mg/L	10/10/2012 910b	10/12/2012 2210h	5W6020A	0 0100	< 0 0100	•
ari awal@awai-labs com								

Kyle F Gross Laboratory Director

ATTACHMENT V

LABORATORY QUALITY CONTROL REPORTS

WORK O Client Client ID:	RDER Summary Wasatch Integrated WMD WAS130		Contact,	John Watson		Work Order Page 1 of 3	r:	1207205 7/16/2012
Project:	2nd Qtr' 12 Ash Samples	a final ray	QC Level:	LEVEL 11+		WO Type:		Standard
Comments: Sample ID	QC 2+ Include copy of TCLP log with 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
						3005A-TCLP-PR		TCLPFridge
	SEL Analytes CD PB					6020-TCLP	V	TCLPFridge
1207205-002A	AS-12-02-02	6/19/2012 0921h				1311LM-PR		tCLPFridge-
						3005A-TCLP-PR		met/hg tCLPFridge-
						6010C-TCLP	✓	met/hg (CLPFridge- met/hg
	SEL Analytes: CR	· · · · · · · · · · · · · · · · · · ·				6020-TCLP	✓	1CLPFridge- mei/hg
	SEL Analytes: AS BA CD PB SE AG					HG-TCLP-7470A		tCLPFridge-
						HG-TCLP-PR		met/hg tCLPFridge-
1207205-003A	AS-12-02-03	7/11/2012 1214h				1311LM-PR		met/hg TCLPFridge
						3005A-TCLP-PR	ä	TCLPFridge
	SEL Analytes CD PB					6020-TCLP	✓	TCLPFridge
1207205-004A	AS-12-02-04	6/19/2012 0930h				I311LM-PR		TCLPFridge
						3005A-TCLP-PR		TCLPFridge
	SEL Analytes CD PB					6020-TCLP	✓	TCLPFridge
1207205-005A	AS-12-02-05	7/11/2012 1236h				1311LM-PR		TCLPFridge
						3005A-TCLP-PR 6020-TCLP		TCLPFridge TCLPFridge
	SEL Analytes CD PB						•	
1207205-006A	AS-12-02-06	6/19/2012 0952h				1311LM-PR	무	TCLPFridge
						3005A-TCLP-PR 6020-TCLP		TCLPFridge TCLPFridge
WORK O	RDFR Summary		·			Work Orde		1207205
Client:	PRDER Summary Wasatch Integrated WMD					Work Orde Page 2 of 3		1207205 7/16/2012
Client: Sample ID	Wasatch Integrated WMD Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Page 2 of 3 Test Code	Sel	7/16/2012 Storage
Client:	Wasatch Integrated WMD	Collected Date 7/11/2012 1317h	Received Date 7/13/2012 0810h	Date Due 7/30/2012	Matrix Solid	Page 2 of 3 Test Code 1311LM-PR	Sel	7/16/2012 Storage TCLPFridge
Client: Sample ID	Wasatch Integrated WMD Client Sample ID					Page 2 of 3 Test Code	Sel	7/16/2012 Storage
Client: Sample ID	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB	7/11/2012 1317h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP	Sel	7/16/2012 Storage TCLPFridge TCLPFridge TCLPFridge
Client: Sample ID	Wasatch Integrated WMD Client Sample ID AS-12-02-07					Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR	Sel	7/16/2012 Storage TCLPFridge TCLPFridge
Client: Sample ID	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08	7/11/2012 1317h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR	Sel	7/16/2012 Storage TCLPFridge TCLPFridge TCLPFridge TCLPFridge
Client: Sample ID	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB	7/11/2012 1317h				Page 2 of 3 Test Code ####################################	Sel	7/16/2012 Storage TCLPFridge TCLPFridge TCLPFridge TCLPFridge TCLPFridge
Client: Sample ID 1207205-007A 1207205-008A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB	7/11/2012 1317h 6/19/2012 1012h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP	Sel	7/16/2012 Storage TCLPFridge TCLPFridge TCLPFridge TCLPFridge TCLPFridge TCLPFridge
Client: Sample ID 1207205-007A 1207205-008A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-09	7/11/2012 1317h 6/19/2012 1012h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR	Sel	7/16/2012 Storage TCLPFridge TCLPFridge TCLPFridge TCLPFridge TCLPFridge TCLPFridge TCLPFridge
Client: Sample ID 1207205-007A 1207205-008A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB	7/11/2012 1317h 6/19/2012 1012h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR	Sel	7/16/2012 Storage TCLPFridge
Client: Sample ID 1207205-007A 1207205-008A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-09 SEL Analytes CD PB	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 3005A-TCLP-PR	Sel	7/16/2012 Storage TCLPFridge
Client: Sample ID 1207205-007A 1207205-008A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-09 SEL Analytes CD PB	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR	Sel Sel	7/16/2012 Storage TCLPFridge
Client: Sample ID 1207205-007A 1207205-008A 1207205-009A 1207205-010A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h 6/19/2012 1030h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP		7/16/2012 Storage TCLPFridge
Client: Sample ID 1207205-007A 1207205-008A 1207205-009A 1207205-010A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h 6/19/2012 1030h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 1311LM-PR		7/16/2012 Storage TCLPFridge
Client: Sample ID 1207205-007A 1207205-008A 1207205-009A 1207205-010A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h 6/19/2012 1030h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 1311LM-PR 1311LM-PR		7/16/2012 Storage TCLPFridge met/hg & voc tCLPFridge met/hg & voc tCLPFridge met/hg & voc tCLPFridge
Client: Sample ID 1207205-007A 1207205-008A 1207205-009A 1207205-010A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h 6/19/2012 1030h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR	Set	7/16/2012 Storage TCLPFridge met/hg & voc tCLPFridge met/hg & voc tCLPFridge met/hg & voc tCLPFridge tCLPFridge met/hg & voc tCLPFridge tCLPFridge met/hg & voc tCLPFridge
Client: Sample ID 1207205-007A 1207205-008A 1207205-009A 1207205-010A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-09 SEL Analytes CD PB AS-12-02-11	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h 6/19/2012 1030h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 6020-TCLP		7/16/2012 Storage TCLPFridge met/hg & voc
Client: Sample ID 1207205-007A 1207205-008A 1207205-009A 1207205-010A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB AS-12-02-11 SEL Analytes CD PB AS-12-02-11	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h 6/19/2012 1030h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 1311LM-PR 3005A-TCLP-PR 6010C-TCLP		7/16/2012 Storage TCLPFridge met/hg & voc tCLPFridge tCLPFridge met/hg & voc tCLPFridge met/hg & voc tCLPFridge tCLPFridge met/hg & voc tCLPFridge met/hg & voc tCLPFridge met/hg & voc
Client: Sample ID 1207205-007A 1207205-008A 1207205-009A 1207205-010A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB AS-12-02-11 SEL Analytes CD PB AS-12-02-11	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h 6/19/2012 1030h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 6020-TCLP		7/16/2012 Storage TCLPFridge met/hg & voc tCLPFridge-met/hg & voc
Client: Sample ID 1207205-007A 1207205-008A 1207205-009A 1207205-010A	Wasatch Integrated WMD Client Sample ID AS-12-02-07 SEL Analytes CD PB AS-12-02-08 SEL Analytes CD PB AS-12-02-10 SEL Analytes CD PB AS-12-02-11 SEL Analytes CD PB AS-12-02-11	7/11/2012 1317h 6/19/2012 1012h 7/11/2012 1356h 6/19/2012 1030h				Page 2 of 3 Test Code 1311LM-PR 3005A-TCLP-PR 6020-TCLP 6020-TCLP 6020-TCLP		7/16/2012 Storage TCLPFridge More of tclp

Client:	RDER Summary Wasatch Integrated WMD					Work Order Page 3 of 3		1207205 7/16/2012
Sample ID	Chent Sample ID	Collected Date	Received Date	Date Due	Matrix			Storage
1207205-012A	AS-12-02-12	7/11/2012 1434h	7/13/2012 0810h	7/30/2012	Solid	1311LM-PR		TCLPFridge
						3005A-TCLP-PR		TCLPFridge
						6020-TCLP	✓	TCLPFridge
	SEL Analytes CD PB						r=-1	mal par 1
1207205-013A	AS-12-02-13	7/11/2012				1311LM-PR	므	TCLPFridge
						3005A-TCLP-PR		TCLPFridge
	SEL Analytes CD PB					6020-TCLP	Y	TCLPFridge
1207205-014A	AS-12-02-14					I311LM-PR	П	TCLPFridge
						3005A-TCLP-PR	Ħ	TCLPFridge
						6020-TCLP	፱	TCLPFridge
	SEL Analytes CD PB						دی	
1207205-015A	AS-12-02-15	6/19/2012 0921h				1311LM-PR		tCLPFridge- met/hg
	***					3005A-TCLP-PR		tCLPFridge- met/hg
	· · · · · · · · · · · · · · · · · · ·					6010C-TCLP	Y.	tCLPFridge- met/hg
	SEL Analytes: CR	· · · · · · · · · · · · · · · · · · ·						
	CTV A . I A . A C DA CT DD CT A C					6020-TCLP	V	tCLPFridge- met/hg
	SEL Analytes AS BA CD PB SE AG					HG-TCLP-7470A		tCLPFridge- met/hg
-						HG-TCLP-PR		tCLPFridge- met/hg

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	RDER Summary					Work Order	120/2/
Client:	Wasatch Integrated WMD					Page 1 of 2	9/18/2012
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 324h	10/2/2012	Soil	1311LM-PR	TCLPFridge 1
-						3005A-TCLP-PR	TCLPFridge
	CCI Assets CD DD					6020-TCLP	TCLPFridge
I209297-002A	SEL Analytes CD PB AS-12-02A-2	9/13/2012 0848h				1311LM-PR	TCLPFridge
		7101012 001011					TCLPFridge
							▼ TCLPFridge
	SEL Analytes: CD PB						
1209297-003A	AS-12-02A-3	9/13/2012 1001h					TCLPFridge
							☐ TCLPFridge
	art					6020-TCLP	▼ TCLPFridge
1209297-004A	SEL Analytes: CD PB AS-12-02A-4	9/13/2012 0922h		· · · · · · · · · · · · · · · · · · ·		1311LM-PR	TCLPFridge
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				3005A-TCLP-PR	TCLPFridge
	=					6020-TCLP	▼ TCLPFridge
	SEL Analytes: CD PB						
1209297-005A	AS-12-02A-5	9/13/2012 1032h				1311LM-PR	TCLPFridge
·						3005A-TCLP-PR	TCLPFridge
	SEL Analytes: AS BA CD CR PB SI	7.AC				6020-TCLP	▼ TCLPFridge
	SEL Adayles, AS BA CD CR I B SI	. AU				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	▼ TCLPFridge
7	SEL Analytes CD PB						T TOT DE 1
1209297-007A	AS-12-02A-7	9/13/2012 1155h				1311LM-PR	TCLPFridge
						3005A-TCLP-PR	TCLPFridge
	SEL Analytes. CD PB					6020-TCLP	▼ TCLPFridge
1209297-008A	AS-12-02A-8	9/13/2012 1227h				1311LM-PR	TCLPFridge
			/			3005A-TCLP-PR	TCLPFridge
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WORK O	RDER Summary Wasatch Integrated WMD					Work Order Page 2 of 2	r:	1209297 9/18/2012
Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code	Sel	Storage
209297-008A	AS-12-02A-8 SEL Analytes CD PB	9/13/2012 1227h	9/18/2012 1324h	10/2/2012	Soil	6020-TCLP	✓	TCLPFridge
1209297-009A	AS-12-02A-9	9/13/2012 1259h				131 ILM-PR		TCLPFridge
						3005A-TCLP-PR		TCLPFridge
	SEL Analytes: CD PB		 -			6020-TCLP	~	TCLPfridge
1209297-010A	AS-12-02A-10	9/13/2012 1320h				1311LM-PR	$\overline{\Box}$	TCLPFridge
						3005A-TCLP-PR	ñ	TCLPFridge
	SEL Analytes. CD PB				-	6020-TCLP	V	TCLPFridge
1209297-011A	AS-12-02A-11	9/13/2012 1413h				1311LM-PR	\neg	TCLPFridge
						3005A-TCLP-PR	Ħ	TCLPFridge
						6020-TCLP	<u></u>	TCLPFridge
1209297-012A	SEL Analytes CD PB AS-12-02A-12	9/13/2012 1450h				1311LM-PR		TCLPFridge
		-				3005A-TCLP-PR		TCLPFridge
	SEL Anatytes: CD PB				·	6020-TCLP	✓	TCLPFridge
1209297-013A	AS-12-02A-13	9/13/2012 1515h				1311LM-PR	П	TCLPFridge
						3005A-TCLP-PR	늄	TCLPFridge
	SEL Analytes: AS BA CD CR PB SE AG					6020-TCLP	✓	
						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
	SEL Analytes: CD PB					6020-TCLP	V	TCLPFridge
1209297-015A	AS-12-02A-15	9/13/2012 1630h				1311LM-PR		TCLPFridge
					•	3005A-TCLP-PR		TCLPFridge
	SEL Analytes: AS BA CD CR PB SE AG					6020-TCI,P	~	TCLPFridge
	SEE AMENIA AS DA CO CRIBSE AS					HG-TCLP-7470A		TCLPFridge
						HG-TCLP-PR	ΤËΠ	TCLPFridge

American West Analytical Laboratories

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WORK	DDED C						1010007
	RDER Summary					Work Order:	1210097
Client:	Wasatch Integrated WMD					Page 1 of 2	10/5/2012
Client ID:	WAS130			ohn Watson			
Project:	3rd Qtr '12 Ash		QC Level: L	EVEL II+		WO Type:	Standard
Comments:	QC 2+ Include copy of TCLP log	g with final report,					<u> </u>
Sample ID	Chent Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code S	iel Storage
1210097-001A	AS-12-03-01	9/19/2012 0913h	10/5/2012 1323h	10/19/2012	Solid	1311LM-PR [TCLPFridge
	_					3005A-TCLP-PR	TCLPFridge
						6020-TCLP	TCLPFridge
1210097-002A	SEL Analytes: CD PB	0110 2010 00101				12111111	TOLDE 1
1210097-002A	AS-12-03-02	9/19/2012 0948h				1311LM-PR [3005A-TCLP-PR [TCLPFridge TCLPFridge
	·						✓ TCLPFridge
	SEL Analytes: CD PB					0020-1CEF	Z ICEFFIIGE
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 SI	E 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					TCLPFridge
	-						TCLPFridge
	SEL Analytes: CD PB					6020-TCLP	▼ TCLPFridge
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					TCLPFridge
						3005A-TCLP-PR	TCLPFridge
	SEL Analytes: CD PB					6020-TCLP	▼ TCLPFridge
1210097-008A	As-12-03-08	9/19/2012 1325h				1311LM-PR	TCLPFridge
				1		3005A-TCLP-PR	TCLPFridge
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WORK O	RDER Summary Wasatch Integrated WMD					Work Order Page 2 of 2		1210097 10/5/2012
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	V	TCLPFridge
1210097-009A	SEL Anniytes: CD PB As-12-03-09	0110001011001				1311LM-PR	_	TCI PE1
1210097-009A	AS-12-03-09	9/19/2012 1430h				3005A-TCLP-PR	岩	TCLPFridge TCLPFridge
						6020-TCLP	F	TCLPFridge
	SEL Analytes: CD PB					6020-TCLP	V	ICLPFridge
1210097-010A	AS-12-03-10	9/19/2012 1505h				1311LM-PR		TCLPFridge
						3005A-TCLP-PR		TCLPFridge
	SEL Analytes: AS BA CD CR PB SE AG					6020-TCLP	✓	TCLPFridge
	SEL Anniyes: AS DA CD CR FD SE AG					HG-TCLP-7470A	\Box	TCLPFridge
						HG-TCLP-PR	亩	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	븐	TCLPFridge
						3005A-TCLP-PR	:-	TCLPFridge
	SEL Analytes. CD PB					6020-TCLP	✓	TCLPFridge
1210097-013A	As-12-03-13	9/19/2012 1632h				1311LM-PR		TCLPFridge
				-		3005A-TCLP-PR	$\overline{\Box}$	TCLPFridge
		=				6020-TCLP	✓	TCLPFridge
	SEL Analytes CD PB							
1210097-014A	As-12-03-14	9/19/2012 1700h				1311LM-PR		TCLPΓridge
						3005A-TCLP-PR		TCLPFridge
						6020-TCLP	✓	TCLPFridge
1210097-015A	SEL Analytes CD PB AS-12-03-15	9/19/2012 1730h	······································			131 ILM-PR	П	TCLPFridge
1210097-01374	A3-12-03-13	9/19/2012 1/308				3005A-TCLP-PR	岩	TCLPFridge
						6020-TCLP	<u> </u>	
	SEL Analytes: AS DA CD CR PB SE AG					0020-1CLF	•	CELLINGE
						HG-TCLP-7470A		TCLPFridge
						HG-TCLP-PR		TCLPFridge

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WORK O	RDER Summary Wasatch Integrated WMD					Work Order: Page 1 of 2	1212454 12/28/2012
Client ID:	WAS130		Contact: Joh	n Watson		J	
Project:	4TH Qtr '12 Ash		QC Level 11+			WO Type:	Standard
Comments:	QC 2+ Include copy of TCLP log	with final report,					D
Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matrix	Test Code S	el 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
	SEL Analytes: CD PB					6020-TCLP	TCLPFridge
1212454-002A	AS-12-04-2	12/15/2012 0800h				1311LM-PR [TCLPFridge
							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
1212454-004A	SEL Analytes: CD PB AS-12-04-4	12/15/2012 0900h				1311LM-PR	TCLPFridge
1212434-004A	AS-12-04-4	12/13/2012 0900h					TCLPFridge
							TCLPFridge
	SEL Analytes: CD PB					6020-TCLP	Z ICLPFridge
1212454-005A	AS-12-04-5	12/15/2012 0930h				1311LM-PR [TCLPFridge
						3005A-TCLP-PR [TCLPFridge
	SEL Analytes CD PB					6020-TCLP	✓ TCLPFridge
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
	SEL Analytes: AS BA CD CR PB S	FAC				6020-TCLP	▼ TCLPFridge
	BED ANALYSIS AND CO CR 1 D 3	LNO				HG-TCLP-7470A	TCLPFridge
							TCLPFridge
1212454-008A	AS-12-04-8	12/15/2012 1100h				1311LM-PR	TCLPFridge
						3005A-TCLP-PR	TCLPFridge
EOD I ABODATO	DV LISE ON V [fill out on page 1] W.M. D	DT CH CHIEF TAT IS	oc rts	~ OC "	W - 1 HO	200 Od v	Emailed

WORK O	RDER Summary					Work Order		1212454
Client:	Wasatch Integrated WMD					Page 2 of 2		12/28/2012
Sample ID	Client Sample ID	Collected Date	Received Date	Date Due	Matria	Test Code	Sel	Storage
212454-008A	AS-12-04-8	12/15/2012 1100h	12/20/2012 1000h	1/7/2013	Solid	6020-TCLP	¥	TCLPFridge
212464 0004	SEL Analytes: CD PB	10//4/0012 11201				45444 AB		TOURE 1
212454-009A	AS-12-04-9	12/15/2012 1130h				1311LM-PR	브	TCLPFndge
						3005A-TCLP-PR	브	TCLPFridge
	SEL Analytes · CD PB					6020-TCLP	✓	TCLPFridge
212454-010A	AS-12-04-10	12/15/2012 1200h				1311LM-PR	$\overline{}$	TCLPFridge
						3005A-TCLP-PR	품	TCLPFridge
						6020-TCLP	$\overline{\mathbf{z}}$	TCLPFridge
	SEL Analytes: CD PB					0020-1021	•	1 CE 1 Hage
212454-011A	AS-12-04-11	12/15/2012 1230h				131 ILM-PR		TCLPFridge
						3005A-TCLP-PR		TCLPFridge
						6020-TCLP	V	TCLPFridge
	SEL Analytes CD PB							
212454-012A	AS-12-04-12	12/15/2012 1300h				1311LM-PR		TCLPFridge
						3005A-TCLP-PR		TCLPFridge
						6020-TCLP	✓	TCLPFridge
212454-013A	SEL Analytes: CD PB AS-12-04-13	12/15/2012 1330h				1311LM-PR		TCLPFridge
212434-013M	A3-12-04-13	12/15/2012 1330h				3005A-TCLP-PR	屵	TCLPFridge
							<u></u>	
	SEL Analytes: AS BA CD CR PB SE AG					6020-TCLP	V	ICLPFriage
						HG-TCLP-7470A		TCLPFridge
	-					HG-TCLP-PR		TCLPFridge
212454-014A	AS-12-04-14	12/15/2012 1400h				1311LM-PR		TCLPFridge
						3005A-TCLP-PR		TCLPFridge
						6020-TCLP	V	TCLPFridge
	SEL Analytes: CD PB							
212454-015A	AS-12-04-15	12/15/2012 1430h	<u> </u>			1311LM-PR		TCLPFridge
						3005A-TCLP-PR		TCLPFridge
	SEL Analytes AS BA CD CR PB SE AG					6020-TCLP	V	TCLPFridge
	SEL AUSLINES AS DA CU CR PD SE AU		· · · · · · · · · · · · · · · · · · ·			HG-TCLP-7470A		TCLPFridge
						HG-TCLP-PR	$\overline{\Box}$	TCLPFridge

METHOD BLANKS



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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: ME

QC Type MBLK

Sample 1D	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 16578
MB-19923	Arsenic	mg/L	SW6020A	< 0 0100				-				7/17/2012 13031
MB-19923	Barium	mg/L	SW6020A	< 0 0500				-				7/17/2012 13031
MB-19923	Cadmium	, mg/L	SW6020A	< 0 00250								7/17/2012 13031
MB-19923	Lead	mg/L	SW6020A	< 0 0500				-				7/17/2012 13031
MB-19923	Selenium	mg/L	SW6020A	< 0 0100				-				7/17/2012 13031
MB-19923	Silver	mg/L	SW6020A	< 0 0100								7/17/2012 13031
MB-20075	Arsenic	mg/L	SW6020A	< 0 0100				-				7/26/2012 22321
MB-20075	Вапит	mg/L	SW6020A	< 0 0500								7/26/2012 22321
MB-20075	Cadmium	mg/L	SW6020A	< 0 00250								7/26/2012 22321
MB-20075	Lead	mg/L	SW6020A	< 0 0500								7/27/2012 1444
MB-20075	Selenium	mg/L	SW6020A	< 0 0100								7/26/2012 22321
MB-20075	Silver	mg/L	SW6020A	< 0 0100								7/26/2012 22321
MB-TCLP-19919	Arsenic	mg/L	SW6020A	< 0 0100								7/17/2012 1307
MB-TCLP-19919	Barrum	mg/L	SW6020A	< 0 0500								7/17/2012 1307
MB-TCLP-19919	Cadmium	mg/L	SW6020A	< 0 00250				-				7/17/2012 1307
MB-TCLP-19919	Lead	mg/L	SW6020A	< 0 0500								7/17/2012 1307
MB-TCLP-19919	Selenium	mg/L	SW6020A	< 0 0100				•				7/17/2012 1307

Report Date 7/30/2012 Page 19 of 28

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

OC SUMMARY REPORT

Client: Wasatch Integrated WMD

Lab Set 1D: 1207205

Project: 2nd Qtr' 12 Ash Samples

Contact John Watson

Dept: ME QC Type. MBLK

			de tilber many									
Sample 1D	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	Banum	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	Barrum	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	Barrum	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

Report Date 7/30/2012 Page 20 of 28



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Jose Rocha

QA Officer

Kyle F Gross Laboratory Director

OC SUMMARY REPORT

Wasatch Integrated WMD

Lab Set ID: 1207205 Project:

2nd Qtr' 12 Ash Samples

Contact: John Watson

Dept. ME QC Type: MBLK

					Amount	Original				RPD		
Sample ID	Analyte	Units	Method	Result	Spiked	Amount	%REC	Limits	%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

Report Date 7/30/2012 Page 21 of 28

splicable to the CVMA and RCMA are performed in socordance to NELAC protocols. Perforest sampling information is located on the attached COC. This report is provided for the acclusive use of the acclusive on the protocols or incommend to the name of the campany accepts on incommend to the campany accepts on the company accepts no responsibility accept for the due performance of inspection and/or analysis in good (bits).

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Kyle F Gross Laboratory Director

Jose Rocha **OA** 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

	<u>`</u>											
Sample ID	Analyte	Units	Method	Result	Amonnt Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qnal	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	SW#260C	< 0 00200								7/16/2012 920h
MB VOC 071612A	1,4-Dichlorobenzene	mg/L	SW#260C	< 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 tetrachlonde	mg/L	5W8260C	< 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	SW1260C	< 0 00200	,			-				7/16/2012 920h
MB VOC 071612A	Tetrachloroethene	mg/L	SW#260C	< 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 1619
MB-TCLP-19916	1,2-Dichloroethane	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619
MB-TCLP-19916	1,4-Dichlorobenzene	mg/L	SW8260C	< 0 0400				•				7/16/2012 1619
MB-TCLP-19916	2-Butanone	mg/L	SW8260C	< 0 200								7/16/2012 16191
MB-TCLP-19916	Benzene	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619
MB-TCLP-19916	Carbon tetrachloride	mg/L	SW8260C	< 0 0400								7/16/2012 1619
MB-TCLP-19916	Chlorobenzene	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619
MB-TCLP-19916	Chloroform	mg/L	SW8260C	< 0 0400				-				7/16/2012 1619
										Rep	ort Date	7/30/2012 Page 25



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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

	,				Amount	Original				R₽D		
Sample 1D	Analyte	Units	Method	Result	Spiked	Amount	%REC	Limits	%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	SWB260C	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

Report Date 7/30/2012 Page 26 of 28

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Kyle F Gross Laboratory Director

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: 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	Bartum	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	Barrum	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

Report Date 10/2/2012 Page 18 of 20

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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Wasatch Integrated WMD Client:

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	Cadmrum	mg/L	SW6020A	< 0 00250								10/12/2012 153 h
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 hut not detected above the MDL

Report Date 10/18/2012 Page 18 of 20

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Kyle F Gross 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	\$W6020A	< 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 0 1 0 0				-				12/28/2012 1238h
MB-TCLP-22895	Barjum	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	Selentum	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

Report Date 1/3/2013 Page 18 of 20

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

OC SUMMARY REPORT

Chent: Wasatch Integrated WMD

Lab Set ID: 1207205

Project: 2nd Qtr' 12 Ash Samples Contact: John Watson

Dept:

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	0416	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	Banum	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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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Wasatch Integrated WMD Client:

Lab Set ID: 1207205

2nd Qtr' 12 Ash Samples Project:

Contact: John Watson

Dept: ME QC Type: MS

Sample 1D	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	Barrum	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



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Kyle I. Gross . Laboratory Director

Jose Rocha QA Officer

OC SUMMARY REPORT

Client:

Wasatch Integrated WMD

Lab Set 1D: 1207205 Project:

2nd Qtr' 12 Ash Samples

Contact John Watson ME Dept: QC Type: MSD

Sample ID	Analyte	Units	Method	Resuit	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Quai	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	\$W6010C	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	Barrum	mg/L	SW6020A	0 858	0 4000	0 4905	918	75-125	1 22	20		7/17/2012 1340h
1207205-001AMSD	Cadmium	mg/L	SW60204	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	Banum	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	888	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 03 17	0 03330	0	95 3	80-120	3 24	20		7/25/2012 853h

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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: LCS

Sample 1D	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	SW8250C	0 0234	0 02000	0	117	54-152				7/16/2012 842h
LCS VOC 071612	Sur 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	SW#260C	0 0493	0 05000		98 5	81-135				7/16/2012 842h

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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

OC SUMMARY REPORT

Chent: Wasatch Integrated WMD

Lab Set ID. 1207205

2nd Qtr' 12 Ash Samples Project:

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 12311
1207188-014AMS	Chloroform	mg/L	SW8260C	0 205	0 2000	0	103	50-146				7/16/2012 12311
1207188-014AMS	Trichloroethene	mg/I.	SW8260C	0 203	0 2000	0	101	61-153				7/16/2012 12311
1207188-014AMS	Surr 1,2-Dichloroethane-d4	%REC	SW8260C	0 554	0 5000		111	72-151				7/16/2012 1231h
1207188-014AMS	Suri 4-Bromofluorobenzene	%REC	SW8260C	0 517	0 5000		103	80-128				7/16/2012 12311
1207188-014AMS	Surr Dibromofluoromethane	%REC	SW8260C	0 557	0 5000	4	111	80-124				7/16/2012 12311
1207188-014AMS	Surr Toluene-d8	%REC	SW8260C	0 486	0 5000		97 1	77-129				7/16/2012 12311

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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 MSVOA

Dept: QC Type: MSD

Sample 1D	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1207188-014AMSD	1,1-Dichloroethene	mg/L	\$W#260C	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	SW#260C	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	U 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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Kyle F Gross Laboratory Director

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: 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	Barrum	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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to the CMA SDMA and RCRA are performed in accordance to NELAC protocols. Partnerst sampling information is located on the strached DDC. This report is provided for the actuality use of the addressee. Persispes of autoequant use of the name of this company or any member or los staff or reproduction of with the substitution of the addressee will be grained only on control. This company accepts no responsibility except for the due performance of imperiod and/or prospect on and/or persispes in good fails of the addressee will be grained only on control. This company accepts no responsibility except for the due performance of imperiod and/or persispes in good fails



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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

OC SUMMARY REPORT

Wasatch Integrated WMD Client:

Lab Set ID: 1209297

Project: 2nd Qtr (A) '12

Contact: John Watson

Dept: QC Type: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qual	Date Analyzed
1209297-001 AMS	Arsenic	mg/L	SW6020A	0 430	0 4000	0 003473	107	75-125				10/1/2012 1250h
1209297-001AMS	Вапит	mg/L	SW6020A	0 646	0 4000	0 2521	98 6	75-125				9/29/2012 2133h
1209297-001AMS	Cadmium	mg/L	SW6020A	0416	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
1209297-001 AMS	Lead	mg/L	SW6020A	0 378	0 4000	0 003877	93 6	75-125				9/29/2012 2133h
1209297-001 AMS	Selenium	mg/L	SW6020A	0 411	0 4000	0 001508	102	75-125				9/29/2012 2133h
1209297-001 AMS	Silver	mg/L	SW6020A	0 392	0 4000	0	98 1	75-125				9/29/2012 2]33h
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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ASILLARO WEST ANALT FILCAL LABURATORIES Laboratory Director

463 West 3600 South Laboratory Director

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OA Officer

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

					Amount	Original				RPD		
Sample ID	Analyte	Units	Method	Result	Spiked	Amount	%REC	Limits	%RPD	Limit	Qual	Date Analyzed
1209297-001 AMSD	Arsenic	mg/L	SW6020A	0 425	0 4000	0 003473	105	75-125	111	20		10/1/2012 1254h
1209297-001 AMSD	Вапит	mg/L	SW6020A	0 635	0 4000	0 2521	95 7	75-125	1 79	20		9/29/2012 2140h
1209297-001 AMSD	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	Вапим	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	Мегсигу	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

Wasatch Integrated WMD Client:

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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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

QC SUMMARY REPORT

Client: Wasatch Integrated WMD

Lab Set ID: 1210097 3rd Qtr '12 Ash Project:

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
1210097-003 AMS	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

Report Date 10/18/2012 Page 19 of 20



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Kyle F. Gross Laboratory Director .

Jose Rocha QA Officer

QC SUMMARY REPORT

Wasatch Integrated WMD Client:

Lab Set ID: 1210097 Project: 3rd Qtr '12 Ash Contact: John Watson

Dept: ME QC Type: MSD

Sample ID	Analyte	Unita	Method	Result	Amount Spiked	Original Amount	%REC	Limite	%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	0416	0 4000	0 0008420	104	75-125	3 52	20		10/12/2012 2300h
1210097-003AMSD	Barrum	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	3W6020A	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
12100 9 7-003AMSD	Selenium	mg/L	\$W6020A	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	910	80-120	0	20		10/10/2012 1039h

Report Date 10/18/2012 Page 20 of 20

All analyses appointed to the CVA SDMA, and RCPA are performed in accordance to NELAC protocols. Perforest sampling information in located on the standard CCC. This report is provided for this exchange up on the adversaries. Perfore of the name of this conformation in located on the standard color to the st



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Kyle F Gross Laboratory Director

Jose Rocha QA Officer

OC SUMMARY REPORT

Chent: 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

Report Date 1/3/2013 Page 17 of 20

All analyses applicable to the CMA. BCMA and RCRA are performed in accordance to NELAC protocals. Perfinent sempling information is hocited on the straiched COC. This report is provided for the exclusive use of the addresses. Privileges of subsequent use of the came of the campany or sary member of its staff or reported for the control of the control of the campany accepts no responsibility arcapt for its due performance of inspection analysis in good field.

This report is privileges of subsequent use of the performance of inspection analysis analysis.



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Kyle F. Gross Laboratory Director

Jose Rocha QA Officer

OC SUMMARY REPORT

Wasatch Integrated WMD

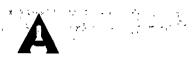
Lab Set ID: 1212454 Project:

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
1212454-002 AMS	Barium	mg/L	SW6020A	0 792	0 4000	0 3663	106	75-125			-	12/27/2012 1951h
1212454-002 AMS	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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Jose Rocha
OA Officer

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: 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 0 5	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

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ATTACHMENT VI

FIELD SAMPLING DOCUMENTATION

1st QUARTER EVENT

SAMPLE IDENTIFICAT	TION:	AS-12-02- 03	_		
REDUCED BY:		John Watson			
DATE/TIME REDUCED) ;	7/11/12	12:	14	
TOTAL SAMPLE WEIG	HT:	lo lbs			Tone = 9 1 be
IRREDUCIBLE FRACT	ION WT:	1 15			TONG - CTE
DESCRIPTION OF IRREDU	CIBLE PRACTIC	on marthqua	nd, c		wre + houls
JAW CRUSHER PASSES (Three passes minumum)	3 Passes	MIXER TIM		<u> </u>	
NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz .	SPLITTER T (usually Thief)	YPE	Thief	
PHOTOGRAPH TAKEN	Yes	•			
COMMENTS:		•	•		
	_				
			•		

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-02- 04
REDUCED BY:	John Watson
DATE/TIME REDUCED:	6119/12 9:50
TOTAL SAMPLE WEIGHT:	13 lbs Tare = 12 lbs
IRREDUCIBLE FRACTION WT.	1 16
DESCRIPTION OF IRREDUCIBLE FRACTI	on Spring, In can, 60H, spoon
JAW CRUSHER PASSES ((three passes minimum) 3 Passes	MIXER TIME. (15min. manunum)
NUMBER OF SPLITS (with Thirt) 2 Jars @ 160z	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN Yes	
COMMENTS	

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:	AS-12-02- 01
REDUCED BY:	John Watson
<u>DATE/TIME</u> REDUCED:	6/A/12 11:00
TOTAL SAMPLE WEIGHT:	13 lbs Tare = 1216
IRREDUCIBLE FRACTION WT:	l lb
DESCRIPTION OF IRREDUCIBLE FRACT	ION: <u>Cams</u>
JAW CRUSHER PASSES (Three passes measures) 3 Passes	MIXER TIME (15 max returnmen)
NUMBER OF SPLITS (with Thier) 2 Jars @ 160z	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN Yes	
COMMENTS:	

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICA	TION·	AS-12-02- 02	
REDUCED BY:		John Watson	
DATE/TIME REDUCEI) :	6/19/12 9:21	
TOTAL SAMPLE WEIG	GHT:	ii ibs	Tane 9 16
IRREDUCIBLE FRACT	ION WT:	2 lb	
Guall Chain	CIBLE FRACT	ION Hoe blade, hu	can, wie
JAW CRUSHER PASSES. (Three passes automount)	3 Passes	MIXER TIME- (15mm, maumum)	15 min
NUMBER OF SPLITS (with Thic!)	2 Jars @ 16oz	SPLITTER TYPE (usually Thirl)	Thief
PHOTOGRAPH TAKEN	Yes		
COMMENTS			
COMMENTS			
COMMENTS			

AS-12-02- 07 SAMPLE IDENTIFICATION: John Watson REDUCED BY: 7/11/12 13:17 DATE/TIME REDUCED: 14 165 TOTAL SAMPLE WEIGHT. Tare = 13 16; 1 ib -IRREDUCIBLE FRACTION WT DESCRIPTION OF IRREDUCIBLE FRACTION Caus, nails, milal strops MIGC. JAW CRUSHER PASSES (Three passes manufacture) MIXER TIME (15mm, manimum) 3 Passes 15 2 Jars @ 16oz NUMBER OF SPLITS (with Thief) SPLITTER TYPE: Thief Yes PHOTOGRAPH TAKEN. COMMENTS

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED- TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT:	AS-12-02-05 John Watson
DESCRIPTION OF IRREDUCIBLE FRAGE	ction cans, timelides, rails/bDHs
	:
JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME (15oun muoitraers)
NUMBER OF SPLITS 2 Jars @ 1602	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN: Yes]
COMMENTS	•

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION-	AS-12-02- 0B	
REDUCED BY:	John Watson	
DATE/TIME REDUCED:	6/14/12 10:12	
TOTAL SAMPLE WEIGHT:	15 164	Tanc = 13 16
IRREDUCIBLE FRACTION WT:	2 lbs	
DESCRIPTION OF IRREDUCIBLE FRACT	TIM CANS, BOIL, C	de
JAW CRUSHER PASSES (Three plases manufactum) 3 Passes	MIXER TIME (15mla remusum)	
NUMBER OF SPLITS 2 Jan @ 160z	SPLITTER TYPE (urually Third)	
PHOTOGRAPH TAKEN Ya		
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 11 lb=Taux
IRREDUCIBLE FRACTION WT:	1 15
DESCRIPTION OF IRREDUCIBLE FRAC	tion <u>Cans, spoon</u> , whee
JAW CRUSHER PASSES (Three peases minimum) 3 Passes	MIXER TIME. (15mm manusum)
NUMBER OF SPLITS 2 Jars @ 1602	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN. Yes	
COMMENTS	

ASH SAMPLING REDUCTION FORM	ASH SAMPLIN	G REDUCTION FORM
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT. IRREDUCIBLE FRACTION WT: AS-12-02- 11 John Watson 7 12 14:19 Tone 7 16;	SAMPLE IDENTIFICATION REDUCED BY: <u>DATE/TIME</u> REDUCED. TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT-	AS-12-02-09 John Watson 7/11/12 13:56 12 166 [h] Tare = 11 166
battery, migc	DESCRIPTION OF IRREDUCIBLE FRAC	tion fork, cans, metalpiecas,
JAW CRUSHER PASSES (Three passes miximum) (15min minimum)	JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME [5]
NUMBER OF SPLITS (with Third) 2 Jars @ 160z SPLITTER TYPE (usually Third) Third	NUMBER OF SPLITS (with Thirt) 2 Jars @ 160z	SPLITTER TYPE Thief (usually Thief)
PHOTOGRAPH TAKEN· Yes .	PHOTOGRAPH TAKEN Yes	
COMMENTS	COMMENTS	
ASH SAMPLING REDUCTION FORM	ASH SAMPLING	G REDÚCTION FORM
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: INDEPLYCIPLE FRACTION NO.	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT.	AS-12-02- 10 John Watson 6 19/12 10:50 11 155 7 156

TOTAL SAMPLE WEI	іент.	10 16	٩	lbs = tar
IRREDUCIBLE FRAC	TION WT:	((\b)		
dashic of our	UCIBLE FRACTION	Caus, me	fol pieces,	wire
JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME (15min minimum)	<u> 15</u>	
NUMBER OF SPLITS (with Thief)	2 Jars @ 1602	SPLITTER TYPE (usually Thief)	Thief	
PHOTOGRAPH TAKEN	Yes			
COMMENTS				

DESCRIPTION OF IRREDUCIBLE FRACTION Tin Cans Bracket, wire JAW CRUSHER PASSES (Three passes minimum) MIXER TIME (15min minimum) 3 Passes 15 2 Jars @ 16oz NUMBER OF SPLITS (with Thief) SPLITTER TYPE (usually Thief) Yes PHOTOGRAPH TAKEN COMMENTS.

Quarter			1	C	ノ	3		4				
Date		_(5	- <u>2</u>	9-	12	2 -	1	- مے رہ	50	a,	Y
Sample Taken	In	(ĀM))			Р	M				
Sample Identif	ficatio	n _										
Sampled By		_	Jeff I	Brads	haw							
Comments and/o	r any v	ranatio	n to p	rocedi	ure _						_	
[· · ·											
Time			' I	Iaul T	np#1	That S	unple	Was 1	Faken.	On		
7:08	0	2	3	4	5	6.	7	8	9	10	11	. 12
7:40	i	<u> </u>	3	4	5	6	7	8	9	10	11	12
10:00	ı	2	0	4	5	6	7	8	9	10	11	12
10:48	1	2	3 (3	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

Date 5-29-12 - Tuesda y 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	Quarter	1 2 3 4
Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure	Date	5-29-12 - Tuesday
Sampled By Jeff Bradshaw Comments and/or any variation to procedure	Sample Taken In	(AM) PM)
Comments and/or any variation to procedure	Sample Identification	n
	Sampled By	Jeff Bradshaw
Time ' 'Haul Trip # That Sample Was Taken On	Comments and/or any v	anation to procedure
Time 'Haul Trip # That Sample Was Taken On		
Time 'Haul Trip # That Sample Was Taken On		
	Time	' Haul Trip # That Sample Was Taken On

Time			- F	łaul T	'np#1	That Sa	mple	Was T	aken	On		
11:30	1	2	3	4 (3		7	8	9	10	11	. 12
12:44	1	2	3	4	5	٨	7	8	9	10	11	12
13:24	1	2	3	4	5	6	0	8	9	10	11	12
14:53	l	2	3	4	5	6	7	۵	9	10	11	12
	ì	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
<u>DATE/TIME</u> REDUCED:	7/11/12 14:55
TOTAL SAMPLE WEIGHT:	1016 Tare=716
IRREDUCIBLE FRACTION WT:	3 6
DESCRIPTION OF IRREDUCIBLE FRACT	MON Caus, Dails, Musc metal
JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME (15mm minimum)
NUMBER OF SPLITS 2 Jars @ 160z	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN Yes	•
COMMENTS	
	•

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 Tore = 101
IRREDUCIBLE FRACTION WT-	1 (6 .
DESCRIPTION OF IRREDUCIBLE FRACTI	ion. Whe ear who held
JAW CRUSHER PASSES (Three passes munimum) 3 Passes	MIXER TIME (15mm, minimum)
NUMBER OP SPLITS (with Thirf) 2 Jars @ 160z	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN Yes	•
COMMENTS	<u> </u>

ASH SAMPLING FIELD DATA SHEET Quarter Date Sample Taken In PM Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure Haul Trip # That Sample Was Taken On 11 12 12 10 11 12 11 12 10 11 12 11

ASH SAMPLING FIELD DATA SHEET

Quarter

-30-12-Wends

PM

Sample Taken In Sample Identification

Sampled By

Jeff Bradshaw

Comments and/or any variation to procedure

Time			' I	Haul T	np#	That Sa	mple	Was 1	Γaken	On		
7:11	a	2	3	4	5	6	7	8	9	10	11	12
7:41	i	0	3	4	5	6	7	8	9	10	11	12
8:15	i	2	Ø	4	5	6	7	8	9	10	11	12
8:53	1	2	3	Ø	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	П	12

ASH SAMPLING FIELD DATA SHEET

Quarter

Date

Sample Taken In

Sample Identification

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time			ŀ	łaul '	lînp#1	That S	ample	Was '	Faken	On		
11:18	1	2	3	4	0	6.	7	8	9	10	11	12
13:15	ı	2	3	4	5	Ö	7	8	9	10	11	12
15:07	1	2	3	4	5	6	0	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	ı	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

Date

30-12-Wends

Sample Taken In

Sample Identification

Sampled By

Jeff Bradshaw

Comments and/or any variation to procedure

Time			ŀ	Iaul T	'np # 1	Tat Sa	mple	Was T	aken	On		
9:46	1 1	2	3	4	<u></u>	6	7	8	9	10	11	12
10:28	,	2	3	4	5	٦	7	8	9	10	1)	12
11:08	1	2	3	4	5	6	Ø	8	9	10	11	12
12:43	1	2	3	4	5	6	7	<u> </u>	9	10	1.1	12
	.1	2	3	4	5	6	7	8	9	10	11	12
	l	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 **3** 3 Quarter 6-4-12-monday Date Sample Taken In PM Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure Haul Trip # That Sample Was Taken On 7:03 10 7:30 2 🗿 4 8:07 10 11 12 8:56 3 Ø 6 ASH SAMPLING FIELD DATA SHEET 0 3 4 Quarter 6-4-12-monday Date Sample Taken In Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure *Haul Trip # That Sample Was Taken On 4 3 6 9:33 5 60 7 8 9 11 12 10:32 6 7 8 9 10 11 12 11:07 14.53

7 8

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 va	nation to procedure	

Time			ŀ	Iaul Ti	np#1	That Sa	mple	Was '	Taken	On		
7:23	①	2	3	4	5	6,	7	8	9	10	11	12
7:55	ì	0	3	4	5	6	7	8	9	.10	11	12
8:40	1	2	0	4	5	6	7	8	9	10	11	12
9:10	1	2	3	<u>@</u>	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-FR/dax
Sample Taken In	AM PM
Sample Identification	
Sampled By	Jeff Bradshaw
Comments and/or any vari	ation to procedule

Time			ŀ	łaul 7	Гпр # 7	That Sa	ample	Was T	aken	On		
9.45	1	2	3	4	0	6.	7	8	9	10	11	. 12
10:17	1	2	3	4	5	O	7	8	9	10	11	12
10:48	1	2	3	4	5	6	3	8	9	10	11	12
12:30	1	2	3	4	5	6	7	Ì	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	JΙ	12
-	1	2	3	4	5	6	7	8	9	10	11	12

Quarter 0 Quarter 12-Wends -5-12 Tuesday Date Date Sample Taken In PM PM Sample Taken In Sample Identification Sample Identification Sampled By Jeff Bradshaw Jeff Bradshaw Sampled By Comments and/or any variation to procedure Comments and/or any variation to procedure Haul Trip # That Sample Was Taken On Time Haul Trip # That Sample Was Taken On 11 12 7:07 0 10 11 12 2 3 35 2 🕜 8:17 9:18 3 Ø 9:10 10 11 10 11 12 10 11 12 10 11 12 10 11 12 11 ,12 10 11 ASH SAMPLING FIELD DATA SHEET ASH SAMPLING FIELD DATA SHEET 2 3 Quarter Quarter -5-12- Tuesday -12 - Wendsday Date Sample Taken In Sample Taken In Sample Identification Sample Identification Sampled By Jeff Bradshaw Jeff Bradshaw Sampled By Comments and/or any variation to procedure Comments and/or any variation to procedure Haul Trip # That Sample Was Taken On Time Haul Trip # That Sample Was Taken On Time 0 12 11 12 5 6 7 8 10 11 12 6 5 10 11 12 Ø 8 12:31 11 12 O 10 11 12 7 (3) 7 3 10 11 - 12 10 11 12 13:24 13:04

10

10 11 12

10

7

11 12

ASH SAMPLING FIELD DATA SHEET

10

11 12

11

11

ASH SAMPLING FIELD DATA SHEET

2nd QUARTER EVENT

SAMPLE IDENTIFICATION:

AS-12-02A- 03

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION.

AS-12-02A- OI

REDUCED BY John Watson	REDUCED BY	John Watson	
DATE/TIME REDUCED. 4-13-12 10:01	DATE/TIME REDUCED:	9/12/02 - 8:20	
TOTAL SAMPLE WEIGHT: 155.4 net34.1	TOTAL SAMPLE WEIGHT.	37.6	Net = 36.8
IRREDUCIBLE FRACTION WT:	IRREDUCIBLE FRACTION WT:	0.8	-
DESCRIPTION OF IRREDUCIBLE FRACTION OCKS Glass JAW CRUSHER PASSES (Three passes mannimum) NUMBER OF SPLITS (with thief) PHOTOGRAPH TAKEN Yes COMMENTS	DESCRIPTION OF IRREDUCIBLE FRACTI FOCKS CALAS JAW CRUSHER PASSES (Three passes minimum) NUMBER OF SPLITS (with Thef) PHOTOGRAPH TAKEN Yes COMMENTS	MIXER TIME (15 min minimum) SPLITTER TYPE (passelly Thef)	cerp, c \),
			
ASH SAMPLING REDUCTION FORM	ASH SAMPLING	REDUCTION FORM	
SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT. IRREDUCIBLE FRACTION WT: AS-12-02A- 64 John Watson 7-13-1,2 9,2 APT 43.2	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT. IRREDUCIBLE FRACTION WT:	AS-12-02A- OZ John Watson 9'-13-12, 8'48 32,8 16	e132.2-
DESCRIPTION OF IRREDUCIBLE FRACTION MECMETAL (CUAS) FOCKS Glass	DESCRIPTION OF IRREDUCIBLE FRACTION	on Tincuns rocks g	1/0.55
JAW CRUSHER PASSES (Three peaces minimum) 3 Passes MIXER TIME (15min minimum)	JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME.	
NUMBER OF SPLITS (with Thief) 2 Jars @ SPLITTER TYPE (usually Thief) Thef	NUMBER OF SPLITS 2 Jars @ 160z	SPLITTER TYPE Thuef Thuef	
PHOTOGRAPH TAKEN Yes	PHOTOGRAPH TAKEN Yes		
COMMENTS			
COMMENTS	COMMENTS		
COMMENTS	COMMENTS		

ASH SAMPLING REDUCTION FORM

AS-12-02A-07 REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: AS-12-02A-07 John Watson 9 13-12-11 55 AS-12-02A-07 John Watson 9 13-12-11 55 AS-12-02A-07 John Watson 9 13-12-11 55 AS-12-02A-07 John Watson 13-14-11 55 AS-12-02A-07 John Watson 13-14-11 55 AS-12-02A-07 John Watson	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: AS-12-02A-05 John Watson 9-13-12-10/32 70-7-31.
DESCRIPTION OF IRREDUCIBLE FRACTION METAL CLAS Glass	description of irreducible fraction Metal Misc cans
JAW CRUSHER PASSES (Three passes minimum) 3 Passes MIXER TIME (15min minimum)	JAW CRUSHER PASSES (Three passes militeratum) 3 Passes MIXER TIME (15mm munimum)
NUMBER OF SPLITS (with Thirt) PHOTOGRAPH TAKEN 2 Jars @ 1602 SPLITTER TYPE (equally Thirt) (equally Thirt) Yes	NUMBER OF SPLITS (with Thief) 2 Jars @ SPLITTER TYPE (usually Thief) PHOTOGRAPH TAKEN Yes
COMMENTS	COMMENTS.
ASH SAMPLING REDUCTION FORM	ASH SAMPLING REDUCTION FORM
ASH SAMPLING REDUCTION FORM SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WITH THE PROPERTY OF THE PROPERT	ASH SAMPLING REDUCTION FORM SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT IRREDUCIBLE FRACTION WT: AS-12-02A-06 John Watson 9-13-12-117.17 1e-750-6
SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: AS-12-02A- 88 John Watson 9-/3-12 ##-55 12.27 net 38	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT AS-12-02A-06 John Watson 4-13-12-17/7 7e ⁷³ 0.6
SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT DESCRIPTION OF IRREDUCIBLE FRACTION Metal cons glass FOCKS MIJC.	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION Metal Cans glass
SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT DESCRIPTION OF IRREDUCIBLE FRACTION Metal Cons glass TOCKS MIJC. MIXER TIME.	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION DESCRIPTION OF IRREDUCIBLE FRACTION MIXER TIME. MIXER TIME. JAW CRUSHER PASSES JAMAN CRUSHER PASSES
SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT DESCRIPTION OF IRREDUCIBLE FRACTION Metal cons glass TOCKS Misc. JAW CRUSHER PASSES (Three passes minimum) The constraint of the constrai	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION DESCRIPTION OF IRREDUCIBLE FRACTION MIXER TIME. (15 mm minimum) NUMBER OF SPLITS 12 Jans (15 mm minimum) SPLITTER TYPE TOTAL AS-12-02A-06 John Watson 17-13-72 17-17 18-730-6 MIXER TIME. (15 mm minimum) SPLITTER TYPE TOTAL SPLITTER TYPE TOTAL SPLITTER TYPE TOTAL TOTAL SPLITTER TYPE TOTAL SPLITTER TYPE TOTAL TOTAL SPLITTER TYPE TOTAL
SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION DESCRIPTION OF IRREDUCIBLE FRACTION METAL SAMPLE DESCRIPTION OF IRREDUCIBLE FRACTION MIXER TIME. (15mm manimum) 13 Passes (15mm manimum) NUMBER OF SPLITS (would) Third) Thirf	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION DESCRIPTION OF IRREDUCIBLE FRACTION MIXER TIME. (15mm minimum) NUMBER OF SPLITS (with Third) AS-12-02A-06 John Watson 17.17 10

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION-	AS-12-02A- ()	SAMPLE IDENTIFICATION:	AS-12-02A- 09
REDUCED BY-	John Watson	REDUCED BY:	John Watson
DATE/TIME REDUCED:	9-B-17 TUB net 37.8	<u>DATE/TIME</u> REDUCED:	9-13-12 12:54
TOTAL SAMPLE WEIGHT	42.4	TOTAL SAMPLE WEIGHT:	. 31.4 net 30.
IRREDUCIBLE FRACTION WT.	46	IRREDUCIBLE FRACTION WT:	
IMEDICIDE I RACITON WI.		IRREDUCIBLE PRACTION WIT	
DESCRIPTION OF IRREDUCIBLE FRACTION	on Msc. Metal glass Rocks	DESCRIPTION OF IRREDUCIBLE FRA	action Metal Cans glass
JAW CRUSHER PASSES (There passes minimum) 3 Passes	MIXER TIME (15mm minimum)	JAW CRUSHER PASSES (Three passes maintain) 3 Passes	MIXER TIME (13mm manmam)
NUMBER OF SPLITS 2 Jars @ 160z	SPLITTER TYPE Thief	NUMBER OF SPLITS 2 Jars (1602	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN Yes	•	PHOTOGRAPH TAKEN Yes]
COMMENTS	•	COMMENTS.	
	`		
ASH SAMPLING	REDUCTION FORM	ASH SAMPLIN	G REDUCTION FORM
SAMPLE IDENTIFICATION:	AS-12-02A- 12	SAMPLE IDENTIFICATION	AS-12-02A- 10
REDUCED BY	John Watson	REDUCED BY:	John Watson
	9-13-12 7450	<u>DATE/TIME</u> REDUCED:	9-13-12 13.20
TOTAL SAMPLE WEIGHT:	39.0 net 31.2	TOTAL SAMPLE WEIGHT	34.0 net 32.2
IRREDUCIBLE FRACTION WT:	7.8	IRREDUCIBLE FRACTION WT:	1.8
DESCRIPTION OF IRREDUCIBLE FRACTIO	n Misc. Metal glass	DESCRIPTION OF IRREDUCIBLE FRAC	TION Metal cans. 5/255
JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME (15 mm mm mm)	JAW CRUSHER PASSES (There passes minimum) 3 Passes	MIXER TIME (13orun orunorum)
NUMBER OF SPLITS (with (hief)	SPLITTER TYPE (usually Thief)	NUMBER OF SPLITS (with Thief) 2 Jars @ 1602	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN Yes	•	PHOTOGRAPH TAKEN Yes)
COMMENTS		COMMENTS	•

SAMPLE IDENTIFICATION:

AS-12-02A- 15

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION:

AS-12-02A- 13

REDUCED BY:	John Watson	,	REDUCED BY:	John Watson
DATE/TIME REDUCED:	9-13-12 1630		DATE/TIME REDUCED.	9-13-17 1515
TOTAL SAMPLE WEIGHT	344	net 28.2	TOTAL SAMPLE WEIGHT	34.4. 1 net 28
IRREDUCIBLE FRACTION WT:	340 6.2		IRREDUCIBLE FRACTION WT:	6.2
	m' - 1-1-0	<i>(</i> , .		, m + / , /
DESCRIPTION OF IRREDUCIBLE PRACTIC	on <u>III.sc., Metal Ki</u>	061(3	DESCRIPTION OF IRREDUCIBLE FRACT	TION Misc Metal Rocks
_916-33			glass	<u> </u>
				· · · · · · · · · · · · · · · · · · ·
JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME (15min minimum)		JAW CRUSHER PASSES (Three passes minumum) 3 Passes	MIXER TIME (15mm minimum)
NUMBER OF SPLITS 2 Jars @ 160z	SPLITTER TYPE (usually Thief)	ı.	NUMBER OF SPLITS (with Thirf) 2 Jars @ 1602	SPLITTER TYPE Thuef
PHOTOGRAPH TAKEN Yes			PHOTOGRAPH TAKEN Yes	
COMMENTS			COMMENTS.	
				<u> </u>
			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,
			IRREDUCIBLE FRACTION WT:	5.4
			description of irreducible fract	ion: <u>m. sc., metal Rocks</u>
			JAW CRUSHER PASSES: (Three passes minimum) 3 Passes	MIXER TIME : [15]
	•		NUMBER OF SPLITS. (with Thirt) 2 Jars @ 160z	SPLITTER TYPE. Thief
			PHOTOGRAPH TAKEN Yes	•
			COMMENTS	

Quarter	1 (2)	3 4
Date	6-19-12	- Tues
Sample Taken In	AM	PM
Sample Identification	on	

Jeff Bradshaw

Sampled By

Comments and/or any variation to procedure

Time	' Haul Trip # That Sample Was Taken On											
7:12	0	2	3	4	5	6	7	8	9	10	11	. 12
7:42	1 (3	3	4	5	6	7	8	9	10	11	12
8:14	l	2	0	1	5	6	7	8	9	10	11	12
8:44	1	2	3 (5	6	7	8	9	10	11	12
	ł	2	3	4	5	6	7	8	9	10	11	12
	ł	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	
Date	6-18-12	- Monday
Sample Taken In	AM	РМ
Sample Identification		
Sampled By	Jeff Bradshaw	

Time			, ,	laul Ti	np#1	That Sa	mple	Was 1	Fake n	On		-
1:07	B	2	3	4	5		7	8	9	10	11	. 12
7:40	1		3	4	5	6	7	8	9	10	11	12
8:09	ı	2	0	4	5	6	7	8	9	10	11	12
8:43	1	2	3	<u>(1)</u>	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 va	nation to procedure		

Time	*	'	ŀ	łau! T	'np # 1	That Sa	ample	Was T	aken	On		
10:46	ł	2	3	4	3	6.	7	8	9	10	11	. 12
11:21	1	2	3	4	5	Ö	7	8	9	10	11	12
12:55	1	2	3	4	5	6	0	8	9	10	11	12
13:47	1	2	3	4	5	6	7 (3	9	10	11	12
	l	2	3	4	5	6	7	8	9	10	11	12
	l	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	Jess Bradshaw	

Comments and/or any variation to procedure

Time			I	laul T	`np#1	That Sa	mple	Was 7	`aken	Оп		
9:15	1	2	3	4	3	6.	7	8	9	10	11	12
10:19	1	2	3	4	5	<u>(6)</u>	7	8	9	10	11	12
10:46	1	2	3	4	5	6		8	9	10	11	12
12:27	ı	2	3	4	5	6	7	<u> </u>	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

Quarter	1 2 3	4
Date	6-21-12-	Thirs
Sample Taken In	AM	PM
Sample Identification	-	-
Sampled By	Jeff Bradshaw	
Comments and/or any variat	ion to procedure	
	' H-vi T # T- + C	Table On

Time		' Haul Trip # That Sample Was Taken On											
11:18	1	2	3	4	3	6	7	8	9	10	11	12	
12:55	1	2	3	4	5	<u>(6)</u>	7	8	9	10	11	12	
13'30	1	2	3	4	5	6	0	8	9	10	11	12	
14:19	ı	2	3	4	5	6	7	@	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	
	l	2	3	4	5	6	7	8	9	10	11	12	

8

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 4

Date 6-22-12-FR/

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	0	2	3	4	5	6,	7	8	9	10	11	12	
7:44	ì	0	3	4	5	6	7	8	9	10	13	12	
8:16	ı	2	3	4	5	6	7	8	9	10	11	12	
8:46	i	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	П	12	

9

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4

Date G-20-12- Guends

Sample Taken In AM PM

Sample Identification

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time			ŀ	laul Ti	np#7	That Sa	mple	Was 1	laken	On		
7:01		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	ı	2	3	4	5	6	7	8	9	10	11	12
8:53	1	2	3	0	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	13	12

#5

ASH SAMPLING FIELD DATA SHEET

Quarter 1 (2) 3 4 6-21-12 = 77

Date 6-21-12 - /hors
Sample Taken In AM PM

Sample Identification

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time		1	ŀ	laul T	np#^	That Sa	mple	Was	Γaken	On		
7:12	0	2	3	4	5	6	7	8	9	10	!1	12
8:01	ı	0	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	<u></u>	5	6	7	8	9	10	11	12
	l	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	1.1	. 12

#7

Quarter	1	(D)	3	4
Date	6-2	5-1	2-,	Mon
Sample Taken In	AM		(PM
Sample Identification				
Sampled By	Jeff B	radshaw		
Comments and/or any van	ation to pr	ocedure _		

Time		Haul Trip # That Sample Was Taken On											
12:49	1	2	3	4	0	6.	7	8	9	10	11	. 12	
13:19	1	2	3	4	5	<u>(6)</u>	7	8	9	10	11	12	
13:54	1	2	3	4	5	6	0	8	9	10	11	12	
14:49	l	2	3	4	5	6	7	<u> </u>	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	(FM)
Sample Identification		
Sampled By	Jeff Bradshaw	
Comments and/or any vari	ation to procedure	

Time		Haul Trip # That Sample Was Taken On										
11:02	ł	2	3	4	<u></u>	6.	7	8	9	10	11	12
12:30	ı	2	3	4	5	9	7	8	9	10	11	12
13:09	1	2	3	4	5	6	O	8	9	10	11	12
14:54	ι	2	3	4	5	6	7	<u></u>	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	ì	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	ii	12

#10

ASH SAMPLING FIELD DATA SHEET

Quarter	l	Ø	3
	_		

Date 6-25-12-MON

Sample Taken In AM PM
Sample Identification

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time !			ŀ	łaul T	rıp#′	That Sa	ample	Was 1	Faken	On		
7:54	(1)	2	3	4	5	6	7	8	9	10	11	12
10:23	1	@	3	4	5	6	7	8	9	10	11	12
10:54	ı	2	(3)	4	5	6	7	8	9	10	11	12
11:25	1	2	3	<u>a</u>	5	6	7	8	9	10	11	12
	ì	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

//

3rd QUARTER EVENT

AS-12-03- 03 SAMPLE IDENTIFICATION: Brent Larsen REDUCED BY: 9-19-12 1027 <u>DATE/TIME</u> REDUCED: net 22 8 25.6 TOTAL SAMPLE WEIGHT IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION. M.Sc. Metal cans 160 kg glass boalt nut JAW CRUSHER PASSES (Three passes minimum) 3 Passes MIXER TIME (15min minimum) 15 NUMBER OF SPLITS SPLITTER TYPE (usually Thief) PHOTOGRAPH TAKEN 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:	80
rocks brick waved	on Mix, metal-cans glass
	00
JAW CRUSHER PASSES. (Three passes minimum) 3 Passes	MIXER TABLE (15man miningum)
NUMBER OF SPLITS 2 Jars @ 1602	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN Yes	
COMMENTS	

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICA	TION	AS-12-03- 04
REDUCED BY:		Brent Larsen
DATE/TIME REDUCE	D:	9-19-17 1105
TOTAL SAMPLE WEIG	GHT.	30.4 Net 27.8
IRREDUCIBLE FRACT	ION WT:	2.6
DESCRIPTION OF IRREDU	CIBLE FRACTI	on Missi metal ylass
JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME. (15min minimum)
NUMBER OF SPLITS	2 Jars @ 160z	SPLITTER TYPE 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 260
IRREDUCIBLE FRACTION WT:	4.2
***	.•
pro-	ion misc. metal cans rocks
DESCRIPTION OF IRREDUCIBLE FRACTI	IN. SC. ME/AI CARS FOCKS
g/ass .	
JAW CRUSHER PASSES (Three passes minimum) 3 Passes A	MIXER TIME (15min minimum)
NUMBER OF SPLITS: 2 Jars @ 160z 160z	SPLITTER TYPE Thief (usually Thief)
PHOTOGRAPH TAKEN Yes	
COMMENTS	

SAMPLE IDENTIFICATION.	AS-12-03- 07	SAMPLE IDENTIFICATION: AS-12-03- 05
REDUCED BY	Brent Larsen	REDUCED BY. Brent Larsen
DATE/TIME REDUCED:	9-14-12 1257	DATE/TIME REDUCED: 4 19-12 1/30
TOTAL SAMPLE WEIGHT:	292 net 246	TOTAL SAMPLE WEIGHT. 34 4 net 77.2
IRREDUCIBLE FRACTION WT:	И.6	IRREDUCIBLE FRACTION WT: 7, 7
RREDUCIBLE I RACITON WI.	,	IRREDUCIBLE FRACTION WI:
		· · · · ·
DESCRIPTION OF IRREDUCIBLE FRACT	ION Misc: metal cuns glass	DESCRIPTION OF IRREDUCIBLE FRACTION Misc. Meta) pot
Rocks hose Shoe		Cans glass rock
	<u> </u>	
		
JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME (15mm minimum)	JAW CRUSHER PASSES 3 Passes MIXER TIME (15mm minimum)
	1	(1 mee paasa (nimmoun)
NUMBER OF SPLITS (with Third) 2 Jars @ 160z	SPLITTER TYPE Thief	NUMBER OF SPLITS 2 Jars @ SPLITTER-TABLE Thief
(**************************************	(usually filler)	(with Third) (usually filed)
PHOTOGRAPH TAKEN Yes		PHOTOGRAPH TAKEN, Yes .
COMMENTS	•	
COMMENTS		COMMENTS.
	<u>, , , , , , , , , , , , , , , , , , , </u>	
•		
ASH SAMPLING	REDUCTION FORM	ASH SAMPLING REDUCTION FORM
		. , '
SAMPLE IDENTIFICATION	AS-12-03- 08	AS 12.02 oc
	Brent Larsen	SAMPLE IDENTIFICATION: AS-12-03- 06
REDUCED BY:	9-19-12: - 1325	REDUCED BY: Brent Larsen
DATE/TIME REDUCED:	1940	DATE/TIME REDUCED: 9-11-13- 13-3
TOTAL SAMPLE WEIGHT:		TOTAL SAMPLE WEIGHT: 33.6
IRREDUCIBLE FRACTION WT	4.4	IRREDUCIBLE FRACTION WT
	\sim \sim	
DESCRIPTION OF IRREDUCIBLE FRACTI	on mix netal class	DESCRIPTION OF IRREDUCIBLE FRACTION Metal Cans
rocks awas	1 9	cuns glassrocks bricks
		The state of the s
JAW CRUSHER PASSES 3 Passes	MIXER TIME	JAW CRUSHER PASSES. 3 Parces MIXER TIME 7.5
(Three passes minimum)	(15min minimum)	Three passes minimum) 3 Passes (15mm minimum) 15
NUMBER OF SPLITS 2 Jars @ 1602	SPLITTER TYPE	2 Jats @
(with Third)	(usually Thief)	NUMBER OF SPLITS (with Thief) 2 1415 @ SPLITTER TYPE (untilly Thief) Thief
PHOTOGRAPH TAKEN Yes		PHOTOGRAPH TAKEN Yes •
	`\	···
COMMENTS.		COMMENTS

ASH SAMPLING REDUCTION FORM ASH SAMPLING REDUCTION FORM

Brent Larsen DATE/TIME REDUCED: 9-/9/2- 1533 TOTAL SAMPLE WEIGHT 3.5.0 0.2		
± 1	REDUCED BY:	Brent Largen .
4	DATE/TIME REDUCED:	9-19-12 1430
TOTAL SAMPLE WEIGHT. 35.0	TOTAL SAMPLE WEIGHT:	29.2) net 218
IRREDUCIBLE FRACTION WT.	IRREDUCIBLE FRACTION WT:	7.4
		· ·
Description of irreducible fraction Misc. Metal glass	DESCRIPTION OF IRREDUCIBLE FRACT	ION Misc. Mata/ curs
focks aans	Glass rocks	
		· · · · · · · · · · · · · · · · · · ·
JAW CRUSHER PASSES. (Thure passes munimum) A Passes (Ismin minimum)	JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME (15mm minimum)
(A) (A)		,
NUMBER OF SPLITS 2 Jars @ 16oz SPLITTER TYPE Thuef	NUMBER OF SPLITS (with Thirf) 2 Jars @ 160z	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN Yes		
TROTOGRAFII TAREN 169	PHOTOGRAPH TAKEN Yes	\
COMMENTS	COMMENTS	
·		a. 1 : a
ASH SAMPLING REDUCTION FORM	A SH S A M DI INC	
	ASH SAMFLING	REDUCTION FORM
	ASH SAMI LING	REDUCTION FORM
SAMPLE IDENTIFICATION: AS-12-03-1/L		REDUCTION FORM
	SAMPLE IDENTIFICATION:	AS-12-03- /C Brent Larsen
SAMPLE IDENTIFICATION: REDUCED BY: AS-12-03-1/L Brent Larsen	SAMPLE IDENTIFICATION: REDUCED BY:	AS-12-03- /C Brent Larsen
SAMPLE IDENTIFICATION: REDUCED BY: Brent Larsen Q-19-12-1604	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED:	AS-12-03- 10 Brent Larsen 9-19-121 1505 Net 780
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: AS-12-03-12 Brent Laisen Q-19-12 1/604 AeTal. 2	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT	AS-12-03- /C Brent Larsen
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: AS-12-03- 1/L Brent Larsen Q-19-12 1/604 AET 21.2 TOTAL SAMPLE WEIGHT: T. 6	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED:	AS-12-03- 10 Brent Larsen 9-19-121 1505 7-1780
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: AS-12-03- 1/L Brent Larsen Q-19-12- 1/604 AET 21.2 TOTAL SAMPLE WEIGHT: TOTAL SAMPLE WEI	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT	AS-12-03- 10 Brent Larsen 9-19-122 1605 Net 780 34.6
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION MISC Metal g/455	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTS	AS-12-03- 10 Brent Larsen 9-19-122 1505 34.6 6.6
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: AS-12-03- 1/L Brent Larsen Q-19-12- 1/604 AET 21.2 TOTAL SAMPLE WEIGHT: TOTAL SAMPLE WEI	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT:	AS-12-03- 10 Brent Larsen 9-19-121 1505 34.6 6.6
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION MISC Metal g/455	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTS	AS-12-03- 10 Brent Larsen 9-19-121 1505 34.6 6.6
SAMPLE IDENTIFICATION: REDUCED BY: Brent Larsen Q-19-12-1604 TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION M.SC Metal glass [OSLS Lans	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTS	AS-12-03- 10 Brent Larsen 9-19-121 1505 34.6 6.6
SAMPLE IDENTIFICATION: REDUCED BY: Brent Larsen Q-19-12-1604 TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION M.SC Metal glass [OSLS Lans	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTS	AS-12-03-10 Brent Larsen 9-19-121 1605 Net 280 34.6 6.6 ON Mix, Motal cons
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION JAW CRUSHER PASSES JPasses MIXER TIME (15mm manufum) MIXER TIME (15mm manufum)	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTI Glo & Cock 5 JAW CRUSHER PASSES (Three passes minimum) 3 Passes	AS-12-03-10 Brent Larsen 9-19-121 1605 Net 280 34.6 6.6 ON Mix, Matal Cons
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION DESCRIPTION OF IRREDUCIBLE FRACTION JAW CRUSHER PASSES 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION OF IRREDUCIB	AS-12-03-10 Brent Larsen 9-19-121 1605 Net 280 34.6 6.6 ON Mix, Matal Cons
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION JAW CRUSHER PASSES (Three passes minimum) JAW CRUSHER PASSES (Three passes minimum) JAW CRUSHER PASSES (Three passes minimum) SPLITTER TYPE (with Thirt) Thef	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GOOD STATEMENT OF THE	AS-12-03- 10 Brent Larsen 9-19-12\ 1505 0.6.6 MIXER TIME. (13mm minimum) SPLITTER TYPE. The Company of t
SAMPLE IDENTIFICATION: REDUCED BY: Brent Larsen DATE/TIME REDUCED. Q-19-12-1604 TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION M.S.C. Metal g/4.25 TOLLS / Lan 5 MIXER TIME: (15min mainimum) NUMBER OF SPLITS 2 Jac 20 SPLITTER TYPE THE	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION JAW CRUSHER PASSES (Three passes minimum) 3 Passes NUMBER OF SPLITS	AS-12-03- 10 Brent Larsen 9-19-12\ 1505 0.6.6 MIXER TIME. (13mm minimum) SPLITTER TYPE. The Company of t
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION JAW CRUSHER PASSES (Three passes minimum) JAW CRUSHER PASSES (Three passes minimum) JAW CRUSHER PASSES (Three passes minimum) SPLITTER TYPE (with Thirt) Thef	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GOOD STATEMENT OF THE	AS-12-03- 10 Brent Larsen 9-19-12\ 1505 0.6.6 MIXER TIME. (13mm minimum) SPLITTER TYPE. The Company of t
SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION JAW CRUSHER PASSES (Three passes minimum) JAW CRUSHER PASSES (Three passes minimum) JAW CRUSHER PASSES (South Tiber) PHOTOGRAPH TAKEN Yes AS-12-03- 1/2 Brent Larsen Q - 79 - 72 - 1/604 AS-12-03- 1/2 Brent Larsen AS-12-03- 1/2 Brent Larsen Q - 79 - 72 - 1/604 AS-12-03- 1/604	SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT- IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GOOD STATE OF THE STATE	AS-12-03- 10 Brent Larsen 9-19-12\ 1505 0.6.6 MIXER TIME. (13mm minimum) SPLITTER TYPE. The Company of t

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT:	AS-12-03- 147 Brent Larsen 9-19-12 (730 19-14-16 0 9-6	SAMPLE IDENTIFICATION: REDUCED BY: Brent Larsen DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: 8.4	tab 0
DESCRIPTION OF IRREDUCIBLE FRACTI	on <u>Misc, Netal slass</u>	description of irreducible fraction Mise Metal can 1 9/255	ocks
NAW CRUSHER PASSES Three passes minimum) 3 Passes	MIXER TIME (15mm munumum)	JAW CRUSHER PASSES 3 Passes MIXER TIME (15man minimum) 1/3	
NUMBER OF SPLITS 2 Jars @ 160z PHOTOGRAPH TAKEN Yes	SPLITTER TYPE Thief	NUMBER OF SPLITS 2 Jars 2 SPLITTER TYPE. (usually Third) PHOTOGRAPH TAKEN. Yes	
COMMENTS		COMMENTS	
		ASH SAMPLING REDUCTION FORM SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: ASH SAMPLING REDUCTION FORM AS-12-03- 14 Brent Larsen 4-19-12-1700	t a
		TOTAL SAMPLE WEIGHT. \\ \(\frac{4/.0}{6.2}\) IRREDUCIBLE FRACTION WT:	† 34. g
		DESCRIPTION OF IRREDUCIBLE FRACTION MISC. Metal glas:	<u></u>
		JAW CRUSHER PASSES (Three passes minimum) 3 Passes (15man manimum)	 -
		NUMBER OF SPLITS 2 Jars @ SPLITTER TYPE (usually Thief) Thief	
		PHOTOGRAPH TAKEN. Yes COMMENTS	·

À

ASH SAMPLING FIELD DATA SHEET Quarter 7-76-12- Thurs Date Sample Taken In Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure Haul Trip # That Sample Was Taken On Tune 7:31 11 12 12 11 12 11 12 12 11 ASH SAMPLING FIELD DATA SHEET 3 Quarter Date Sample Taken In Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure

Haul Trip # That Sample Was Taken On

5 6 7

11:52

12:57

13:25

14:19

11 12

11 12

11 12

12

12

10 11 12

10 11

ASH SAMPLING FIELD DATA SHEET

Quarter	1 2 3 4
Date	7-25-12 — wends
Sample Taken In	AM PM
Sample Identification	#/
Sampled By	Jeff Bradshaw
Comments and/or any va	nation to procedure

Time		' Haul Тпр # That Sample Was Taken On										
7:25	0	2	3	4	5	6.	7	8	9	10	11	12
8:14	1	0	3	4	5	6	7	8	9	10	11	12
8:52	1	2	0	4	5	6	7	8	9	10	11	12
9:31	1	2	3	0	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
7-7-	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 vari	ation to procedure

Time		' Haul Trip # That Sample Was Taken On										
11:18	!	2	3	4	3	6 ,	7	8	9	10	11	12
12:45	·	2	3	4	5	6	7	8	9	10	11	12
13:37	1	2	3	4	5	6	D	8	9	10	11	12
15:03	1	2	3	4	5	6	7	٨	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	I	2	3	4	5	6	7	8	9	10	H	12
	1	2	3	4	5	6	7	8	9	10	13	12

3 2 7-30-12- Mon Date Sample Taken In Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure Haul Trip # That Sample Was Taken On Time 11 12 11 12 10 10 11 12 10 11 . 12 ASH SAMPLING FIELD DATA SHEET 2 3 4 Quarter 7-30-12-Mon Sample Taken In Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure Haul Trip # That Sample Was Taken On 11 12 11 12 11 12 10 11 12

ASH SAMPLING FIELD DATA SHEET

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 vari	ation to procedure _		

Time		' Haul Trip # That Sample Was Taken On										
7:22	Ø	2	3	4	5	6	7	8	9	10	11	12
7:52	l	2	3	4	5	6	7	8	9	10	11	12
8:29	i	2	3	4	5	6	7	8	9	10	11	12
9:44	ı	2	3	<u>(4)</u>	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12
	i	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 PM

Sample Identification

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time		•	i	laul '	rnp#1	That S:	mple	Was T	aken	On		
10:45	i	2	3	4	0	6	7	8	9	10	11	12
11:34	l	2	3	4	5	6	7	8	9	10	11	12
12:08	1	2	3	4	5	6	0	8	9	10	11	12
12:46	1	2	3	4	5	6	7	@	9	10	11	12
	ì	2	3	4	5	6	7	8	9	10	11	12
	i	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	11	12

Quarter	1 2 3	4	(Augu	T)
Date	8-1-12-	wends		
Sample Taker		PM	·	
Sample Identi		#	://	
Sampled By	Jeff Bradshaw		.,	
Comments and/o	any variation to procedure		**	
				- -
				-
Time	Haul Trip # That S	ample 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	
0,-0	1 2 3 4 5 6	7 8 9	10 11 12	
	1 2 3 4 5 6	7 8 9	10 11 12	ļ
	1 2 3 4 5 6	7 8 9	10 11 12	
Quarter Date	MPLING FIELD 1 2 © 8-1-12 - 2	4	SHEET	t .
Sample Taken Sample Identif			-12	
Sampled By	Jeff Bradshaw		,	`
	iny variation to procedure			
		;		
		···		ı
Time	' Haul Trip # That Sa	mple Was Taken	On	
10:40	1 2 3 4 🕥 6.	7 8 9	10 11 12	
13:02	1 2 3 4 5 🕏	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 🚯 9	10 11 12	
· · · · · · · · · · · · · · · · · · ·	1 2 3 4 5 6	7 8 9	10 11 12	

ASH SAMPLING FIELD DATA SHEET ___ ASH SAMPLING FIELD DATA SHEET

Quarter	1 2 🕢 4
Date	7-31-12-Tues
Sample Taken In	AM PM
Sample Identification	# /
Sampled By	Jeff Bradshaw
Comments and/or any va	nation to procedure

Time		,	ŀ	laul T	np#1	That Sa	ample	Was '	Taken	On	•	
7:08	0	2	3	4	5	6	7	8	9	10	11	12
7:42	ı	3	3	4	5	6	7	8	9	10	H	12
8:28	i	2	0	4	5	6	7	8	9	10	11	12
9:03	1	2	3 (0	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 🕥 4
Date	7-31-12-Tues
Sample Taken In	(AM) (PM)
Sample Identification	#/0
Sampled By	Jeff Bradshaw
Comments and/or any var	nation to procedure

Time	_	·,=	ŀ	łaul T	np#1	That Sa	mple	Was T	aken	On		
10:27	i	2	3	4 (0	6	7	8	9	10	11	. 12
11:03	. 1	2	3	4	5	Ö	7	8	9	10	11	12
12:41	1	2	3	4	5	6	0	8	9	10	1)	12
13:18	1	2	3	4	5	6	7	<u> </u>	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

Quarter			i	2		3		4				
Date		<u>8</u>	3-2	- 1	2 .	· 7,	hul	25				
Sample Taken	In	(8 M				Pi	VI.	. /	, -	_	
Sample Identif	icatio	n _						\neq	1	/3	5	
Sampled By			Je <u>ff</u> I	Brads	hasv							
Comments and/o	r any v	anatio	n to p	rocedu	ire _		<u>. </u>					
· · · · · · · · · · · · · · · · · · ·												
Time		-	ŀ	laul Tr	np#1	That Sa	mple	Was 1	Faken	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
7:52 8:26	. 1	2	3 3	4	5		7	8	9	10	11	12
			➂			6						

ASH SAMPLING FIELD DATA SHEET

Quarter	I 2 💰	3 4 ,
Date	8-2-12	-Thurs
Sample Taken In	(AM)	PM 1/1/
Sample Identification		
Sampled By	Jeff Bradshaw	
Comments and/or any vari	ation to procedure	

Time			ŀ	łaul T	np#1	That Se	mple	Was T	aken	On		
10:58	1	2	3	4	<u></u>	6	7	8	9	10	11	. 12
12:40	. 1	2	3	4	5	6	7	8	9	10	11	12
13://	l	2	3	4	5	6 /	1	8	9	10	11	12
13:48	1	2	3	4	5	6	7	③	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	Į1	12
	1	2	3	4	5	6	7	8	9	10	11	12
	1	2	3	4	5	6	7	8	9	10	П	. 12

4th QUARTER EVENT

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION.	AS-12-04-03		SAMPLE IDENTIFICAT	ION:	AS-12-04-0	
REDUCED BY:	Jon Corbin		REDUCED BY:		Jon Corbin	
DATE/TIME REDUCED:	13/15/2012 0830		DATE/TIME REDUCED		12/15/2012 073	0
TOTAL SAMPLE WEIGHT:	25,2 L135		TOTAL SAMPLE WEIG		29.4 LBS	
IRREDUCIBLE FRACTION WT.	7 135		IRREDUCIBLE FRACTI		7.6 LBS	
DESCRIPTION OF IRREDUCIBLE FRACTI	on aerosal con, cons, witing,	- - -	DESCRIPTION OF IRREDUC		on Cons, neils,	batteries, broke
JAW CRUSHER PASSES (Three passes minumum) 3 Passes	MIXER TIME (15min minimum)		JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME (15min minimum)	Brin
NUMBER OF SPLITS 2 Jars @ 1602	SPLITTER TYPE (usually Thief)		NUMBER OF SPLITS (with Thief)	2 Jars @ 16oz	SPLITTER TYPE. (usually Thief)	Thief
PHOTOGRAPH TAKEN Yes			PHOTOGRAPH TAKEN	Yes		
COMMENTS		-	COMMENTS			
		- -				
		- -				
		- -				
ASH SAMPLING SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT:	AS-12-04- 64 Jon Corbin [12/19/20] 0906 38.6 L65		ASH SAM SAMPLE IDENTIFICATION REDUCED BY. DATE/TIME REDUCED: TOTAL SAMPLE WEIGH	on: [AS-12-04-02 Jon Corbin 13/15/203 0800 36.2 4.85	ORM
IRREDUCIBLE FRACTION WT:	7.6 LBS		'IRREDUCIBLE FRACTIO	Г	10 FB2	
DESCRIPTION OF IRREDUCIBLE FRACTION	,		DESCRIPTION OF IRREDUCI	BLE FRACTION	V Cans, wiring	Filter, bol
JAW CRUSHER PASSES (Three passes minimum)	MIXER TIME (ISMin minimum)		JAW CRUSHER PASSES (Three passes minimum)	3 Passes	MIXER TIME (15min minimum)	Isnia
NUMBER OF SPLITS 2 Jars @ 160z	SPLITTER TYPE Thief		NUMBER OF SPLITS. (with Thiel)	2 Jars @ 160z	SPLITTER TYPE (usually Thicf)	Thief
PHOTOGRAPH TAKEN Yes			PHOTOGRAPH TAKEN	Yes		
COMMENTS			COMMENTS			
		-				
		-				

REDUCED BY: Jan Carlos Date Time Da	REDUCTION FORM	ASH SAMPLING R	G REDUCTION FORM	ASH SAMPLING
ASH SAMPLING REDUCTION FORM ASH SAMPLING REDUCTION FORM ASH SAMPLE IDENTIFICATION. REDUCED BY: DATE TIME REDUCED: DATE TIME REDUCED: DATE TIME REDUCED: DATE TIME REDUCED: TOTAL SAMPLE WEIGHT: DESCRIPTION OF IRREDUCIBLE FRACTION WIT. DESCRIPTION OF IRREDUCIBLE FRACTION WIT	AS-12-04-05 Jon Corbin (3/15/201) 0530 30,6 LB5 6,2 LB5	REDUCED BY: DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT:	Jon Corbin 13/15/2012 1030 37.8 LBS	REDUCED BY: <u>DATE/TIME</u> REDUCED: TOTAL SAMPLE WEIGHT:
ASH SAMPLING REDUCTION FORM ASH SAMPLING REDUCTION FORM ASH SAMPLE IDENTIFICATION. SAMPLE IDENTIFICATION. ASH SAMPLE IDENTIFICATION. BESCRIPTION OF IRREDUCED: TOTAL SAMPLE WEIGHT TOTAL SAMPLE	N Cans, bothery, me	description of irreducible fraction	rion nails, cans, battery,	`
SAMPLE IDENTIFICATION. AS-12-04-68 REDUCED BY: JON COrbin REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT. DESCRIPTION OF IRREDUCIBLE FRACTION. AS-12-04-68 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCED: TOTAL SAMPLE WEIGHT: TOT	MIXER TIME (15 min minimum) SPLITTER TYPE (usually Thief) Thief	NUMBER OF SPLITS (with Thief) PHOTOGRAPH TAKEN. Yes	 (15mm maximum) 13.72.0.1 SPLITTER TYPE Third	NUMBER OF SPLITS (with Thiet) PHOTOGRAPH TAKEN The passes minimum) 2 Jars @ 160z 160z
REDUCED BY: Jon Corbin REDUCED BY: DATE/TIME REDUCED: 10/15/2012 1100 DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION Cans, Mails, backe pad, DESCRIPTION OF IRREDUCIBLE FRACTION. DESCRIPTION OF IRREDUCIBLE FRACTIO	REDUCTION FORM	ASH SAMPLING RI	REDUCTION FORM	ASH SAMPLING
JAW CRUSHER PASSES JAW CRUSHER PASSES (If three passes minimum) JAW CRUSHER PASSES (If three passes minimum) JAW CRUSHER PASSES (Three passes minimu	AS-12-04-06 Jon Corbin 17/15/12 1000 33,4 LBS	REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT:	Jon Corbin [13/15/201] 1100	REDUCED BY: <u>DATE/TIME</u> REDUCED: TOTAL SAMPLE WEIGHT
(15mia miaimum) (15mia miaimum				
NUMBER OF SPLITS 1602 SPLITTER TYPE Thief NUMBER OF SPLITS 1602	. Cans, batteries, S		ion cans, nails, booke pad,	DESCRIPTION OF IRREDUCIBLE FRACTION
	MIXER TIME (15min monimum)	JAW CRUSHER PASSES 1 Page 1	MIXER TIME [IS as]	bracket, byttoy
PHOTOGRAPH TAKEN. Yes PHOTOGRAPH TAKEN. Yes	MIXER TIME [6.)	JAW CRUSHER PASSES (Thee passes minimum) NUMBER OF SPLITS 2 Jars @ Jeog	MIXER TIME (15mm musinum) SPLITTER TYPE Thur	JAW CRUSHER PASSES (Three passes maintain) JAW CRUSHER PASSES (Three passes maintain) Jars @ 1607

15min

ASH SAMPLING REDUCTION FORM

SAMPLE IDENTIFICATION: AS-12-04-	SAMPLE IDENTIFICATION:	AS-12-04-69
REDUCED BY: Jon Corbin	REDUCED BY:	Jon Corbin
DATE/TIME REDUCED: 12/(5/2012 1250		12/15/12 (130
TOTAL SAMPLE WEIGHT: 33,8 485	DATE/TIME REDUCED.	
IRREDUCIBLE FRACTION WT; 5.8 LBS	TOTAL SAMPLE WEIGHT:	8,2 LBS
	IRREDUCIBLE FRACTION WT:	L01 & 1/2)
bolt, battery, nicina	battery Door Vinob,	spindle, bracket material
JAW CRUSHER PASSES 3 Passes MIXER TIME (15 mm. monimum)	JAW CRUSHER PASSES. (Three passes minimum) 3 Passes	MIXER TIME (15mm nunumum)
NUMBER OF SPLITS (with Thief) 2 Jars @ SPLITTER TYPE (usually Thief) Thief	NUMBER OF SPLITS. (with Thief)	SPLITTER TYPE (usually Thief)
PHOTOGRAPH TAKEN Yes	PHOTOGRAPH TAKEN· Yes	
COMMENTS:	COMMENTS	
ASH SAMPLING REDUCTION FORM	ASH SAMPLING	REDUCTION FORM
	SAMPLE IDENTIFICATION:	AS-12-04- \O
SAMPLE IDENTIFICATION· REDUCED BY: AS-12-04-\ Jon Corbin	SAMPLE IDENTIFICATION: REDUCED BY.	AS-12-04- \ O Jon Corbin
SAMPLE IDENTIFICATION· REDUCED BY: AS-12-04-\ Jon Corbin	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED.	AS-12-04- \O
SAMPLE IDENTIFICATION REDUCED BY: Jon Corbin DATE/TIME REDUCED \(\frac{12-04}{\frac{1}{2}\alpha^2} \frac{13\infty}{13\infty}\)	SAMPLE IDENTIFICATION: REDUCED BY. <u>DATE/TIME</u> REDUCED. TOTAL SAMPLE WEIGHT:	AS-12-04- 10 Jon Corbin 12/15/20 2 1200 35.2 425
SAMPLE IDENTIFICATION REDUCED BY: Jon Corbin DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: AS-12-04-17 Jon Corbin 13-04-17 AS-12-04-17 Jon Corbin	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED.	AS-12-04- \ O
SAMPLE IDENTIFICATION REDUCED BY: Jon Corbin DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: AS-12-04-17 Jon Corbin 13-04-17 AS-12-04-17 Jon Corbin	SAMPLE IDENTIFICATION: REDUCED BY. <u>DATE/TIME</u> REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT:	AS-12-04- 10 Jon Corbin 12/15/20 2 1200 35.2 425
SAMPLE IDENTIFICATION REDUCED BY: Jon Corbin DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION Cong wiring batteries	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION	AS-12-04- 10 Jon Corbin 13/15/2013 1300 35.7 L/35 7.8 L/35
SAMPLE IDENTIFICATION REDUCED BY: DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION Can 5, wiring batteries, MULTIPLE TOTAL JAW CRUSHER PASSES. 1 Passer MIXER TIME 1505	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION OF IRREDUCIB	AS-12-04-10 Jon Corbin 13/15/203 1800 35.7 1855 7.8 185 ON. Cons, batteries, 19:15
SAMPLE IDENTIFICATION REDUCED BY: Jon Corbin DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION Con 5, wiring batteries, MIXER TIME (15mm minimum) NUMBER OF SPLITS AS-12-04-17 JON Corbin DOI 1300 DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: 30.4 LB 5 MIXER TIME (15mm minimum) [5min] NUMBER OF SPLITS PLOTE That	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GE (050) (50, 10, 10, 10) JAW CRUSHER PASSES (Three passes minimum) JAW CRUSHER PASSES (Three passes minimum) 1 Passes NUMBER OF SPLITS 2 Jun (2) 1607	AS-12-04-10 Jon Corbin 13/15/20(3) 1300 35.2 135 7.8 135 ON. Cons, batteries, 19.15 MIXER TIME 15min (15min minimum) SPLITTER TYPE Thur
SAMPLE IDENTIFICATION REDUCED BY: Jon Corbin DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION Can 2, wiring batteries, MIXER TIME (15 min minimum) JAW CRUSHER PASSES. (Three pates minimum) JAW CRUSHER PASSES. J Passes MIXER TIME (15 min minimum) SPLITTER TYPE (usually Thief) Thef	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GO SOL CAN, WILLIAM JAW CRUSHER PASSES (Three phases minumum) 1 Passes NUMBER OF SPLITS (with Thirf)	AS-12-04-10 Jon Corbin 13/15/20(3) 1300 35.2 135 7.8 135 ON. Cons, batteries, 19.15 MIXER TIME 15min (15min minimum) SPLITTER TYPE Thur
SAMPLE IDENTIFICATION REDUCED BY: Jon Corbin DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GAS, wiring batteries, MIXER TIME (15man minimum) NUMBER OF SPLITS (15man minimum) 12 Jars @ 160z SPLITTER TYPE (15wally Thief) PHOTOGRAPH TAKEN Yes	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GE 60 Sol Con, Windows JAW CRUSHER PASSES (Three passes minimum) NUMBER OF SPLITS (with Thirt) PHOTOGRAPH TAKEN Yes	AS-12-04-10 Jon Corbin 13/15/20(3) 1300 35.2 135 7.8 135 ON. Cons, batteries, 19.15 MIXER TIME 15min (15min minimum) SPLITTER TYPE Thur
SAMPLE IDENTIFICATION REDUCED BY: Jon Corbin DATE/TIME REDUCED TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GAS, wiring batteries, MIXER TIME (15man minimum) NUMBER OF SPLITS (15man minimum) 12 Jars @ 160z SPLITTER TYPE (15wally Thief) PHOTOGRAPH TAKEN Yes	SAMPLE IDENTIFICATION: REDUCED BY. DATE/TIME REDUCED. TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION GE 60 Sol Con, Windows JAW CRUSHER PASSES (Three passes minimum) NUMBER OF SPLITS (with Thirt) PHOTOGRAPH TAKEN Yes	AS-12-04-10 Jon Corbin 13/15/20(3) 1300 35.2 135 7.8 135 ON. Long, batteries, 19.15 MIXER TIME: 15min (15min minimum) SPLITTER TYPE Thur

SAMPLE IDENTIFICATION: AS-12-04-

REDUCED BY:	Jon Corbin
DATE/TIME REDUCED:	12/15/2012 1330
TOTAL SAMPLE WEIGHT.	38 LBS
IRREDUCIBLE FRACTION WT.	6.4 135
DESCRIPTION OF IRREDUCIBLE PRACTI	on <u>Cans</u> , wiring, bearing,
JAW CRUSHER PASSES (Three passes mainmum) 3 Passes	MIXER TIME. (I5 Min.)
NUMBER OF SPLITS (with Thiel) 2 Jars @ 160z	SPLITTER TYPE. (usually Thief)
PHOTOGRAPH TAKEN Yes	
COMMENTS	
ASH SAMPLING SAMPLE IDENTIFICATION: REDUCED BY: DATE/TIME REDUCED: TOTAL SAMPLE WEIGHT: IRREDUCIBLE FRACTION WT: DESCRIPTION OF IRREDUCIBLE FRACTION TOTAL SAMPLE WEIGHT:	
Door latch, pipe, wird	2
JAW CRUSHER PASSES (Three passes minimum) 3 Passes	MIXER TIME (15mm mitterum)
NUMBER OF SPLITS. (with Third) 2 Jars @ 160z	SPLITTER TYPE Thief
PHOTOGRAPH TAKEN. Yes	
COMMENTS	

Ouarter

2 3 3

Date

10-2-12-Tues

Sample Taken In

AM

PM

Sample Identification

Sampled By

Jeff Bradshaw

Comments and/or any variation to procedure

Time		,	F	laul T	rip#1	That Sa	unple	Was [*]	 Taken	On		
7:35	1	2	3	4	5	6	7	8	9	10	11	12
8:05	l	0	3	4	5	6	7	8	9	10	11	12
8:52	i	2	0	4	5	6	7	8	9	10	11	12
9;38	1	2	3 (Ì	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

10-2-12-Tues

Sample Taken In





Sample Identification

Sampled By

Jeff Bradshaw

Comments and/or any variation to procedure

Time			' l	faul '	înp#	That S	ample	: Was 1	Taken	On	-	
11:5.7	1	2	3	4	Ø	6.	7	8	9	10	11	12
13:09	1	2	3	4	5	Ö	7	8	9	10	11	12
13:37	1	2	3	4	5	6	Ò	8	9	10	11	12
14:58	1	2	3	4	5	6	7	a	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

2

4

Date

10-1-12 - Ma

Sample Taken In



PM

Sample Identification

Sampled By

Jeff Bradshaw

Comments and/or any variation to procedure

Time			ŀ	laul T	np#	That S	ample	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 -	<u> </u>	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	ы	12
	1	2	3	4	5	6	7	8	9	10	П	12



ASH SAMPLING FIELD DATA SHEET

Quarter

3 4

Date

10-1-12 - Mon

Sample Taken In



PM

Sample Identification

Sampled By

Jeff Bradshaw

Comments and/or any variation to procedure

ASH SAMPLING FIELD DATA SHEET Quarter 10-4-12-Thurs Date Sample Taken In Sample Identification Sampled By Jeff Bradshaw Comments and/or any variation to procedure Haul Trip # That Sample Was Taken On 2 3 4 11 12 2 3 4 11 12 3 **(**3) 11 12 10 11 12 10 11 12 10 11

10/

10

11 12

11 .12

ASH SAMPLING FIELD DATA SHEET

2

Jeff Bradshaw

Quarter

Sample Taken In

Sampled By

Sample Identification

Comments and/or any variation to procedure

Date

3

10-3-12-Wends

(8)

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 4

Date 10 - 4 - 12 - 750R S

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/:11	1	2	3	4	3	6.	7	8	9	10	11	. 12			
	13:18	1	2	3	4	5	<u>'</u>	7	8	9	10	11	12			
	13:48	1	2	3	4	5	6	Ø	8	9	10	11	12			
	15:08	1	2	3	4	5	6	7	0	9	10	11	12			
Ì		ł	2	3	4	5	6	7	8	9	10	11	12			
		1	2	3	4	5	6	7	8	9	10	11	12			
		ı	2	3	4	5	6	7	8	9	10	H	, 12			

ASH SAMPLING FIELD DATA SHEET

Quarter 1 2 3 **(4)**Date 10-3-12- Wends

Sample Taken In

Sample Identification

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time			ŀ	laul '	Тпр#Т	That Sa	mple	Was T	aken	On		
11:32	1	2	3	4	0	6.	7	8	9	10	11	. 12
12:22	1	2	3	4	5	6	7	8	9	10	11	12
13:03	ı	2	3	4	5	6	0	8	9	10	11	12
14:15	1	2	3	4	5	6	7	<u>Ø</u>	9	10	11	12
:	ı	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

 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	0	2	3	4	5	6	7	8	9	10	11	12				
7:40	1	0	3	4	5	6	7	8	9	10	11	12				
8:16	1	2	0	4	5	6	7	8	9	10	11	12				
8:43	1	2	3	Ø	5	6	7	8	9	10	11	12				
	ì	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 <u>Jeff Bradshaw</u>

Comments and/or any variation to procedure

Time			·	laul T	Гпр#7	hat Sa	mple	Was T	aken	Оп		
11:33	ı	2	3	4	0		7	8	9	10	11	12
13:26	ı	2	3	4	5	٨	7	8	9	10	11	12
13:57	1	2	3	4	5	6	7	8	9	10	11	12
15:05	i	2	3	4	5	6	7 (3	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
	ı	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-FR Sample Taken In PM

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Sample Identification

Time			' }	Haul T	пр#1	That Sa	ımple	Was 1	l'aken	On		
7:18		2	3	4	5	6.	7	8	9	10	11	12
7:48	1	0	3	4	5	6	7	8	9	10	П	12
8:32	ı	2	3	4	5	6	7	8	9	10	11	12
9:21	1	2	3	<u>a</u>	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-FK

Sample Identification

Sample Taken In

Sampled By Jeff Bradshaw

Comments and/or any variation to procedure

Time			ŀ	faui '	Tnp#	That Sa	mple	Was 7	`aken	On		
10:42	1	2	3	4	3) 6	7	8	9	10	11	12
11:25	i	2	3	4	5	6	7	8	9	10	11	12
12:27	l	2	3	4	5	6	0	8	9	10	11	12
13:55	-1	2	3	4	5	6	7	<u>③</u>	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



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