January 10, 2013

Mr. Keith Sheedy
Texas Commission on Environmental Quality
Remediation Division
P.O. Box 13087
MC-122
Austin, Texas 78711-3087

RE: Submittal of Site Monitoring and Quality Assurance Data – Week 2
Exide Technologies Frisco Recycling Center
Frisco, Texas
IHW 50206, SWR No. 30516, RN100218643

Dear Mr. Sheedy:

The *Perimeter Air Monitoring Plan for Response Actions at Class 2 Non-Hazardous Waste Landfill* (dated December 7, 2012) and the *Perimeter Air Monitoring Plan - Facility Demolition* dated November 21, 2012 (collectively, the AMPs) address air monitoring to be conducted by Exide Technologies at the Exide Technologies Frisco Recycling Center located in Frisco, Texas during upcoming demolition and landfill remediation work.

Upon the commencement of pre-demolition decontamination activities (i.e., decontamination activities following the cessation of recycling activities and prior to the initiation of facility demolition activities), Exide began using the air monitors and samplers that will be employed under the AMPs to identify potential technical issues and work on procedural aspects of their use prior to the upcoming demolition and landfill remediation work that will be subject to the AMPs. This pre-demolition period provides an excellent opportunity to pilot the AMP procedures, including the format and content of the summary reports that will be provided to TCEQ and posted on the Exide website. Accordingly, with this letter, W&M Environmental Group, Inc. (W&M) is submitting a summary of air monitoring data related to Site activities at the Exide Technologies Frisco Recycling Center located in Frisco, Texas. This data was collected from a period of site activity that was limited to decontamination work and is being submitted for informational purposes and to confirm the use of this reporting format.

This submittal is for data collected or received from **Monday, December 10, 2012 through Saturday December 15, 2012**. Site activities being conducted during this reporting period are noted below:

☒	**Decontamination**	☐	**Facility Demolition**	☐	**Landfill Remediation**

The following Worksheets, Data Sheets or Reports are included within this submittal:

		Description	Details	Remarks
☒	A	Daily Summary Report	Real-time Particulate Monitoring , Wind Speed & Direction	
☐	B	Take Action/Stop Work Notifications	Response actions taken due to high wind or elevated real-time particulate readings	
☒	C	Field Data Sheet – E-BAMs	E-BAM particulate monitoring positions and locations	
☒	D	Field Data Sheet – Low Vols	Details for low-volume samples for Pd/Cd	
☒	E	Analytical Report – Metals Analysis	Laboratory Data Report for Pb/Cd in air samples	
☐	F	Updated Table 1	Re-calculated Action Levels based upon actual PM, Pb and Cd data	

Remark No.	Comments

For activities subject to the *Perimeter Air Monitoring Work Plans*, W&M will indicate that it has reviewed the information in relation to the quality assurance requirements outlined in the *Perimeter Air Monitoring Work Plans*, and the data meets the project QA requirements. W&M undertook that review for this informational assessment as well, and the data meets the project QA requirements.

If you have any questions or require additional information, please do not hesitate to call me at 972-516-0300.

Very truly yours,
W&M ENVIRONMENTAL GROUP, INC.

Frank W. Clark, P.E., P.G.
Senior Consultant

cc: Vanessa Coleman - Exide
Aileen Hooks, Jennifer Keane - Baker Botts LLC
Grant Sherwood, Dan Roth - Remediation Services, Inc.
Tim Nickels - Pastor Behling & Wheeler, LLC

DAILY SUMMARY REPORTS

ATTACHMENT A

Daily Summary Report
Real-Time Particulate Monitoring Data
Exide Technologies - Facility Decontamination and Demolition
Frisco, Texas

Date	Time Interval (30-min blocks)	E-BAM G4605 30-min avg (mg/m^3)	E-BAM F5001 30-min avg (mg/m^3)	E-BAM G4526 30-min avg (mg/m^3)	E-BAM G4607 30-min avg (mg/m^3)	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/10/2012	07:00-07:29					322	13.1
	07:30-07:59					325	12.5
	08:00-08:29					318	15.3
	08:30-08:59					330	14.7
	09:00-09:29					323	12.8
	09:30-09:59					330	13.8
	10:00-10:29					323	16.0
	10:30-10:59					317	12.8
	11:00-11:29	0.032	0.005	0.003	-0.005	325	13.4
	11:30-11:59	0.004	0.023	0.008	0.031	326	11.6
	12:00-12:29	0.015	0.008	0.018	0.029	302	12.1
	12:30-12:59	0.013	0.015	0.009	0.010	319	11.3
	13:00-13:29	0.015	0.006	0.013	0.007	278	10.9
	13:30-13:59	0.007	0.008	0.013	0.013	317	11.3
	14:00-14:29	0.012	0.011	0.008	0.012	298	10.2
	14:30-14:59	0.013	0.008	0.011	0.009	322	11.1
	15:00-15:29	0.011	0.006	0.011	0.018	313	8.6
	15:30-15:59	0.009	0.008	0.018	0.011	326	9.0
	16:00-16:29	0.019	0.010	0.015	0.006	326	8.9
	16:30-16:59	0.011	0.011	0.010	0.016	311	8.3
	17:00-17:29	0.011	0.012	0.015	0.009	324	8.3
	17:30-17:59	0.015	0.003	0.009	0.003	306	7.8

Notes:

- **BOLD** = Take Action Level Exceeded for Particulates (0.100 mg/m^3)
- ***Bold and Italic*** = Stop Work Level Exceeded for Particulates (0.200 mg/m^3)
- Pink shading indicates values below 0 mg/m^3 and should be evaluated for usablity as zero concentration
- Blank data records indicate no data is available for the given time interval

Daily Summary Report
Real-Time Particulate Monitoring Data
Exide Technologies - Facility Decontamination and Demolition
Frisco, Texas

Date	Time Interval (30-min blocks)	E-BAM G4605 30-min avg (mg/m^3)	E-BAM F5001 30-min avg (mg/m^3)	E-BAM G4526 30-min avg (mg/m^3)	E-BAM G4607 30-min avg (mg/m^3)	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/11/2012	07:00-07:29	0.013	0.013	0.010	0.006	114	7.2
	07:30-07:59	0.016	0.015	0.004		112	6.8
	08:00-08:29	-0.005	0.015	0.010		115	6.8
	08:30-08:59	0.000	0.027	0.023		122	8.1
	09:00-09:29	0.026	0.016	0.016		135	8.5
	09:30-09:59	0.031	0.012	0.011		134	8.8
	10:00-10:29	-0.003	0.006	0.014		135	7.7
	10:30-10:59	0.016	0.025	0.025		151	7.1
	11:00-11:29	0.011	0.017	0.026		138	5.6
	11:30-11:59	0.017	0.005	0.012		167	5.1
	12:00-12:29	0.010	0.021	0.018		168	4.8
	12:30-12:59	0.020	0.013	0.015		192	4.3
	13:00-13:29	0.006	-0.005	0.009		204	4.1
	13:30-13:59	-0.001		0.036		226	3.6
	14:00-14:29		0.019	0.010		192	3.5
	14:30-14:59	0.029	0.026	0.019	0.077	168	4.0
	15:00-15:29	0.038	0.012	0.018	0.066	174	2.8
	15:30-15:59	0.019	0.005	0.011	***0.222***	152	3.3
	16:00-16:29	0.013	0.025	0.010	0.010	119	3.4
	16:30-16:59	0.015	0.015	0.021	0.018	119	3.0
	17:00-17:29	0.015	0.017	0.009	0.011	89	3.2
	17:30-17:59	0.005	0.004	0.005	0.021	75	3.2

Notes:

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Daily Summary Report
Real-Time Particulate Monitoring Data
Exide Technologies - Facility Decontamination and Demolition
Frisco, Texas

Date	Time Interval (30-min blocks)	E-BAM G4605 30-min avg (mg/m^3)	E-BAM F5001 30-min avg (mg/m^3)	E-BAM G4526 30-min avg (mg/m^3)	E-BAM G4607 30-min avg (mg/m^3)	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/12/2012	07:00-07:29	0.022	0.021	0.020	0.015	120	8.6
	07:30-07:59	0.016	0.023	0.013	0.020	123	7.1
	08:00-08:29	0.017	0.011	0.009	0.015	146	8.3
	08:30-08:59	0.014	0.004	0.024	0.021	149	9.3
	09:00-09:29	0.025	0.016	0.019	0.025	134	9.5
	09:30-09:59	0.014	0.020	0.019	0.032	155	11.6
	10:00-10:29	0.012	0.010	0.022	0.025	159	10.7
	10:30-10:59	0.011	0.018	0.013	0.020	165	9.9
	11:00-11:29	0.014	0.022	0.014	0.021	162	10.4
	11:30-11:59	0.023	0.011	0.017	0.017	169	9.0
	12:00-12:29	0.020	0.014	0.020	0.015	162	9.4
	12:30-12:59	0.014	0.008	0.009	0.021	173	8.6
	13:00-13:29	0.043	0.028	0.016	0.020	173	9.5
	13:30-13:59	0.018	0.013	0.025	0.025	153	10.4
	14:00-14:29	0.021	0.013	0.018	0.016	150	11.4
	14:30-14:59	0.014	0.006	0.017	0.020	156	10.9
	15:00-15:29	0.023	0.019	0.020	0.012	157	12.7
	15:30-15:59	0.017	0.005	0.018	0.018	156	11.4
	16:00-16:29	0.017	0.008	0.023	0.014	153	10.7
	16:30-16:59	0.020	0.010	0.011	0.021	139	10.6
	17:00-17:29	0.021	0.005	0.020		138	8.5
	17:30-17:59	0.025		0.013		130	8.8

Notes:

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Daily Summary Report
Real-Time Particulate Monitoring Data
Exide Technologies - Facility Decontamination and Demolition
Frisco, Texas

Date	Time Interval (30-min blocks)	E-BAM G4605 30-min avg (mg/m^3)	E-BAM F5001 30-min avg (mg/m^3)	E-BAM G4526 30-min avg (mg/m^3)	E-BAM G4607 30-min avg (mg/m^3)	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/13/2012	07:00-07:29	0.011	0.014	0.010	0.016	147	11.4
	07:30-07:59	0.006	0.009	0.020	0.016	150	10.9
	08:00-08:29	0.019	0.017	0.012	0.015	155	11.8
	08:30-08:59	0.023	0.009	0.019	0.020	160	11.1
	09:00-09:29	0.013	0.022	0.025	0.018	162	11.3
	09:30-09:59	0.021	0.019	0.017	0.019	160	12.4
	10:00-10:29	0.019	0.015	0.020	0.028	161	11.2
	10:30-10:59	0.026	0.025	0.021	0.014	164	11.3
	11:00-11:29	-0.005	0.018	0.022	0.029	157	11.8
	11:30-11:59	0.017	0.013	0.021	0.015	176	11.7
	12:00-12:29		0.009	0.024	0.019	170	12.8
	12:30-12:59	0.025	0.012	0.023	0.023	169	11.5
	13:00-13:29	0.038	0.025	0.024	0.042	171	11.5
	13:30-13:59		0.014	0.019	0.025	163	11.7
	14:00-14:29	0.025	0.015	0.030	0.018	163	11.2
	14:30-14:59		0.022	0.029	0.023	166	10.5
	15:00-15:29	0.045	0.025	0.016	0.017	154	10.1
	15:30-15:59	0.005	0.013	0.022	0.029	142	10.9
	16:00-16:29		-0.002	0.077	0.002	149	11.8
	16:30-16:59			0.016		147	11.8
	17:00-17:29	0.042	0.004	0.023	0.015	150	10.0
	17:30-17:59	0.007	0.013	0.015	0.020	139	9.6
**Daily Averages -----> **		**0.020**	**0.015**	**0.023**	**0.020**	**158**	**11.3**

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Real-Time Particulate Monitoring Data
Exide Technologies - Facility Decontamination and Demolition
Frisco, Texas

Date	Time Interval (30-min blocks)	E-BAM G4605 30-min avg (mg/m^3)	E-BAM F5001 30-min avg (mg/m^3)	E-BAM G4526 30-min avg (mg/m^3)	E-BAM G4607 30-min avg (mg/m^3)	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/14/2012	07:00-07:29	0.009	0.009	0.015	0.021	138	10.6
	07:30-07:59	0.015	0.010	0.011	0.019	134	11.4
	08:00-08:29	0.009	0.005	0.012	0.011	139	10.6
	08:30-08:59	0.015	0.010	0.013	0.017	135	11.6
	09:00-09:29	0.019	0.021	0.016	0.019	141	12.8
	09:30-09:59	0.016	0.012	0.022	0.009	138	13.1
	10:00-10:29	0.023	0.016	0.010	0.021	139	12.5
	10:30-10:59	0.018	0.014	0.018	0.016	138	13.4
	11:00-11:29	0.020	0.010	0.022	0.018	146	11.1
	11:30-11:59	0.017	0.017	0.010	0.073	145	11.2
	12:00-12:29	0.023	0.020	0.016	0.034	144	12.3
	12:30-12:59	***0.349***	0.043	0.063	0.045	139	11.3
	13:00-13:29	0.041	0.014	0.028	0.022	134	10.1
	13:30-13:59	0.032	0.005	0.012	0.023	135	11.6
	14:00-14:29	0.042	0.007	0.036	0.011	126	13.8
	14:30-14:59	0.076	0.019	0.079	0.069	123	15.1
	15:00-15:29	0.020	0.020	0.022	0.017	127	11.2
	15:30-15:59	0.012	0.014	0.010	0.008	134	11.7
	16:00-16:29	0.009	0.005	0.016	0.016	131	14.5
	16:30-16:59	0.008	0.020	0.009	0.006	130	15.1
	17:00-17:29	0.008		0.016		129	16.2
	17:30-17:59	0.028		0.018		118	16.2
Daily Averages ----->		**0.037**	**0.015**	**0.022**	**0.024**	**135**	**12.6**

Notes:

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Daily Summary Report
Real-Time Particulate Monitoring Data
Exide Technologies - Facility Decontamination and Demolition
Frisco, Texas

Date	Time Interval (30-min blocks)	E-BAM G4605 30-min avg (mg/m^3)	E-BAM F5001 30-min avg (mg/m^3)	E-BAM G4526 30-min avg (mg/m^3)	E-BAM G4607 30-min avg (mg/m^3)	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/15/2012	07:00-07:29	0.009	0.023	0.022	0.007	226	10.6
	07:30-07:59	0.013	0.016	0.015	0.028	218	11.4
	08:00-08:29	0.017	0.023	0.013	0.016	214	10.6
	08:30-08:59	0.008	0.008	0.032	-0.001	211	11.6
	09:00-09:29	0.011	0.022	0.015	0.042	219	12.8
	09:30-09:59	0.020	0.010	0.019	0.043	241	13.1
	10:00-10:29	0.016	0.015	0.021	0.014	251	12.5
	10:30-10:59	0.013	0.013	0.013	0.013	260	13.4
	11:00-11:29	0.010	0.003	0.008	0.009	257	11.1
	11:30-11:59	0.005	0.007	0.013	0.015	263	11.2
	12:00-12:29	0.010	0.010	0.012	0.013	248	12.3
	12:30-12:59	0.003	0.006	0.008	0.013	246	11.3
	13:00-13:29	0.008	0.014	0.010	0.009	243	10.1
	13:30-13:59	0.004	0.010	0.011	0.007	246	11.6
	14:00-14:29	0.015	0.010	0.013	0.013	244	13.8
	14:30-14:59	0.006	0.006	0.013	0.008	247	15.1
	15:00-15:29	0.020	0.012	0.015	0.009	245	11.2
	15:30-15:59	0.004	0.005	0.008	0.011	242	11.7
	16:00-16:29	0.015		0.020		246	14.5
	16:30-16:59	0.014	-0.001	0.007	0.001	261	15.1
	17:00-17:29	0.005	0.012	0.003	0.010	248	16.2
	17:30-17:59	0.014	0.004	0.018	0.019	211	16.2
Daily Averages ----->		**0.011**	**0.011**	**0.014**	**0.014**	**240**	**12.6**

Notes:

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FIELD DATA SHEETS – E-BAMS

ATTACHMENT C

FIELD DATA SHEET
E-Bam Particulate Monitoring
Remediation Services, Inc.

RSI Project No: 21252 **Exide, Frisco TX**

Project Name: Facility Demolition

Technician Name JOHNNY GILLMAN **Sampling Date** 12.10.12

E-BAM SN	G4607
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.13565
Longitude	96.82522
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	Yes
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4605
Upwind	X
Downwind	
GPS LOCATION	
Latitude	33.14328
Longitude	96.82942
DATE OF LAST EBAM LEAK CHECK	12.4.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4526
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.13572
Longitude	96.82722
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	Yes
START TIME:	7:00
END TIME:	17:30

E-BAM SN	F5001
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.13668
Longitude	96.82879
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	Yes
START TIME:	7:00
END TIME:	17:30

FIELD DATA SHEET
E-Bam Particulate Monitoring
Remediation Services, Inc.

RSI Project No: 21252 **Exide, Frisco TX**

Project Name: Facility Demolition

Technician Name JOHNNY GILLMAN **Sampling Date** 12-11-12

E-BAM SN	G4607
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14311
Longitude	96.82589
DATE OF LAST EBAM LEAK CHECK	11-21-12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4605
Upwind	X
Downwind	
GPS LOCATION	
Latitude	33.13572
Longitude	96.82722
DATE OF LAST EBAM LEAK CHECK	12-4-12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4526
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14328
Longitude	96.82942
DATE OF LAST EBAM LEAK CHECK	11-21-12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

E-BAM SN	F5001
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14321
Longitude	96.82783
DATE OF LAST EBAM LEAK CHECK	11-21-12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

MOVED ALL UNITS DUE TO WIND SHIFT.

4607 - 13:05 - 14:30
5001 - 13:10 - 14:10
4526 - 13:15 - 13:45
4605 - 13:50 - 14:50

FIELD DATA SHEET
E-Bam Particulate Monitoring
Remediation Services, Inc.

RSI Project No: 21252 **Exide, Frisco TX**

Project Name: Facility Demolition

Technician Name JOHNNY GILLMAN **Sampling Date** 12·12·12

E-BAM SN	G4607
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14330
Longitude	96.83065
DATE OF LAST EBAM LEAK CHECK	11·21·12
EBAM PAIRED WITH LOW VOL PUMP?	YES
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G46045
Upwind	X
Downwind	
GPS LOCATION	
Latitude	33.13572
Longitude	96.82722
DATE OF LAST EBAM LEAK CHECK	12·4·12
EBAM PAIRED WITH LOW VOL PUMP?	NO
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4526
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14328
Longitude	96.82942
DATE OF LAST EBAM LEAK CHECK	11·21·12
EBAM PAIRED WITH LOW VOL PUMP?	YES
START TIME:	7:00
END TIME:	17:30

E-BAM SN	F5001
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14321
Longitude	96.82783
DATE OF LAST EBAM LEAK CHECK	11-21-12
EBAM PAIRED WITH LOW VOL PUMP?	YES
START TIME:	7:00
END TIME:	17:30

MOVED G4607 DUE TO WIND DIRECTION SHIFT.

FIELD DATA SHEET
E-Bam Particulate Monitoring
Remediation Services, Inc.

RSI Project No: 21252 **Exide, Frisco TX**

Project Name: Facility Demolition

Technician Name Johnny Gilman **Sampling Date** 12.13.12

E-BAM SN	G4607
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14330
Longitude	96.83065
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4605
Upwind	X
Downwind	
GPS LOCATION	
Latitude	33.13572
Longitude	96.82722
DATE OF LAST EBAM LEAK CHECK	12.4.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4526
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14328
Longitude	96.82942
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

E-BAM SN	F5001
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14321
Longitude	96.82783
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

FIELD DATA SHEET
E-Bam Particulate Monitoring
Remediation Services, Inc.

RSI Project No: 21252 **Exide, Frisco TX**

Project Name: Facility Demolition

Technician Name Johnny Gillman **Sampling Date** 12.14.12

E-BAM SN	G4607
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14330
Longitude	96.83065
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	YES
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4605
Upwind	X
Downwind	
GPS LOCATION	
Latitude	33.13572
Longitude	96.82722
DATE OF LAST EBAM LEAK CHECK	12.4.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	17:30

E-BAM SN	G4526
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14328
Longitude	96.82942
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	YES
START TIME:	7:00
END TIME:	17:30

E-BAM SN	F5001
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14321
Longitude	96.82783
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	YES
START TIME:	7:00
END TIME:	17:30

FIELD DATA SHEET
E-Bam Particulate Monitoring
Remediation Services, Inc.

RSI Project No: 21252 **Exide, Frisco TX**

Project Name: Facility Demolition

Technician Name Johnny Gilman **Sampling Date** 12-15-12

E-BAM SN	G4607
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14311
Longitude	96.82589
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	18:00

E-BAM SN	G4605
Upwind	X
Downwind	
GPS LOCATION	
Latitude	33.13572
Longitude	96.82722
DATE OF LAST EBAM LEAK CHECK	12.4.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	18:00

E-BAM SN	G4526
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14328
Longitude	96.82942
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	18:00

E-BAM SN	F5001
Upwind	
Downwind	X
GPS LOCATION	
Latitude	33.14321
Longitude	96.82783
DATE OF LAST EBAM LEAK CHECK	11.21.12
EBAM PAIRED WITH LOW VOL PUMP?	No
START TIME:	7:00
END TIME:	18:00

Moved 4607 from NW to NE due to wind direction shift. Down @ 7:08 up @ 7:22.

FIELD DATA SHEETS –
LOW VOLUME SAMPLERS

ATTACHMENT D

FIELD DATA SHEET

Low Volume Air Monitoring

Company:	**RSI**	Formulas	
Project:	**Exide, Frisco TX**	Average Flow (L/min) = (Start + Stop) / 2	
Project Number	21252	Sample Volume(Liters) = Avg Flow (L/min) X Duration (min)	
Project Name (Demo, Landfill Stab, etc)	Demolition	Analysis	NIOSH 7303 Lead/Cadmium
Technician Name:	Johnny Gillman	Date Samples Collected:	12.10.12

Pump No. 3013	1
Upwind	
Downwind	X
Sample ID #	EXDEMO121210DW607
E-Bam Number	G4607
Flow Rate: Start (L/min)	3.23L
Flow Rate: Stop (L/min)	3.39L
Avg Flow (L/min)	3.31L
Start time	7:00
End Time	17:02
Duration in minutes	602
Sample Volume (Liters)	1993L

Pump No. 3014	2
Upwind	
Downwind	X
Sample ID #	EXDEMO121210DW526
E-Bam Number	G4526
Flow Rate: Start (L/min)	3.34 L
Flow Rate: Stop (L/min)	3.48L
Avg Flow (L/min)	3.41 L
Start time	7:04
End Time	17:07
Duration in minutes	603
Sample Volume (Liters)	2056L

Pump No. 3015	3
Upwind	
Downwind	X
Sample ID #	EXDEMO121210DW001
E-Bam Number	F5001
Flow Rate: Start (L/min)	3.22L
Flow Rate: Stop (L/min)	3.40L
Avg Flow (L/min)	3.31L
Start time	7:07
End Time	17:11
Duration in minutes	604
Sample Volume (Liters)	1999L

Pump No. 3020	4
Upwind	X
Downwind	
Sample ID #	EXDEMO121210DW605
E-Bam Number	G4605
Flow Rate: Start (L/min)	3.08L
Flow Rate: Stop (L/min)	3.28L
Avg Flow (L/min)	3.18L
Start time	7:15
End Time	17:21
Duration in minutes	606
Sample Volume (Liters)	1927

Field Blank (if collected) 1 - Per Week Required

Upwind	NA
Downwind	NA
Flow Rate	0
Sample ID #	

FIELD DATA SHEET
Low Volume Air Monitoring

Company:	**RSI**	Formulas	
Project:	**Exide, Frisco TX**	Average Flow (L/min) = (Start + Stop) / 2	
Project Number	21252	Sample Volume(Liters) = Avg Flow (L/min) X Duration (min)	
Project Name (Demo, Landfill Stab, etc)	Demolition	Analysis	NIOSH 7303 Lead/Cadmium
Technician Name:	Johnny Gillman	Date Samples Collected:	12.12.12

Pump No. 3013	1
Upwind	
Downwind	X
Sample ID #	EXDEMD121212DW526
E-Bam Number	64526
Flow Rate: Start (L/min)	3.27L
Flow Rate: Stop (L/min)	3.45L
Avg Flow (L/min)	3.36L
Start time	7:02
End Time	17:04
Duration in minutes	602
Sample Volume (Liters)	2023L

Pump No. 3014	2
Upwind	
Downwind	X
Sample ID #	EXDEMD121212DW 001
E-Bam Number	F5001
Flow Rate: Start (L/min)	3.34L
Flow Rate: Stop (L/min)	3.43L
Avg Flow (L/min)	3.39L
Start time	7:06
End Time	17:07
Duration in minutes	601
Sample Volume (Liters)	2037L

Pump No. 3015	3
Upwind	
Downwind	X
Sample ID #	EXDEMD121212DW607
E-Bam Number	64607
Flow Rate: Start (L/min)	3.20L
Flow Rate: Stop (L/min)	3.36L
Avg Flow (L/min)	3.28L
Start time	7:10
End Time	17:12
Duration in minutes	60
Sample Volume (Liters)	1975L

Pump No.	4
Upwind	
Downwind	
Sample ID #	
E-Bam Number	
Flow Rate: Start (L/min)	
Flow Rate: Stop (L/min)	
Avg Flow (L/min)	
Start time	
End Time	
Duration in minutes	
Sample Volume (Liters)	

Field Blank (if collected) 1 - Per Week Required

Upwind	NA
Downwind	NA
Flow Rate	0
Sample ID #	

FIELD DATA SHEET

Low Volume Air Monitoring

Company:	**RSI**	Formulas	
Project:	**Exide, Frisco TX**	Average Flow (L/min) = (Start + Stop) / 2	
Project Number	21252	Sample Volume(Liters) = Avg Flow (L/min) X Duration (min)	
Project Name (Demo, Landfill Stab, etc)	Demolition	Analysis	NIOSH 7303 Lead/Cadmium
Technician Name:	Johnny Gillman	Date Samples Collected:	12.14.12

Pump No. 3013	1
Upwind	
Downwind	X
Sample ID #	EXDEMO121214DW001
E-Bam Number	F5001
Flow Rate: Start (L/min)	3.34L
Flow Rate: Stop (L/min)	3.36L
Avg Flow (L/min)	3.35L
Start time	7:05
End Time	17:06
Duration in minutes	601
Sample Volume (Liters)	2013

Pump No. 3014	2
Upwind	
Downwind	X
Sample ID #	EXDEMO121214PW607
E-Bam Number	G4607
Flow Rate: Start (L/min)	3.38L
Flow Rate: Stop (L/min)	3.44L
Avg Flow (L/min)	3.41L
Start time	7:17
End Time	17:20
Duration in minutes	603
Sample Volume (Liters)	2056

Pump No. 3015	3
Upwind	
Downwind	X
Sample ID #	EXDEMO121214DW526
E-Bam Number	G4526
Flow Rate: Start (L/min)	3.27L
Flow Rate: Stop (L/min)	3.37L
Avg Flow (L/min)	3.32L
Start time	7:14
End Time	17:16
Duration in minutes	602
Sample Volume (Liters)	1999

~~**Pump No.** 3020~~	4
Upwind	
Downwind	
Sample ID #	
E-Bam Number	
Flow Rate: Start (L/min)	
Flow Rate: Stop (L/min)	
Avg Flow (L/min)	
Start time	
End Time	
Duration in minutes	
Sample Volume (Liters)	

Field Blank (if collected) 1 - Per Week Required

Upwind	NA
Downwind	NA
Flow Rate	0
Sample ID #	

ANALYTICAL DATA REPORTS – METALS ANALYSIS

ATTACHMENT E

ANALYTICAL REPORT

Report Date: December 12, 2012

Grant Sherwood
Remediation Services, Inc.
P.O. Box 587
2735 South 10th Street
Independence, KS 67301

Phone: (620) 331-1200
Fax: (620) 331-6216
E-mail: gsherwood@rsi-ks.com

Workorder: **34-1234606**
Client Project ID: 21252/Exide Frisco 121112
Purchase Order: 21252
Project Manager: Paul Pope

Analytical Results

Sample ID: **EX DEMO 121210 DW 607** Media: MCE Filter Collected: 12/10/2012
Lab ID: 1234606001 Sampling Location: Exide Frisco Received: 12/11/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 1993 L** **Prepared:** 12/11/2012 **Analyzed:** 12/11/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.45	<0.23	0.45	1.5

Sample ID: **EX DEMO 121210 DW 526** Media: MCE Filter Collected: 12/10/2012
Lab ID: 1234606002 Sampling Location: Exide Frisco Received: 12/11/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 2056 L** **Prepared:** 12/11/2012 **Analyzed:** 12/11/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.45	<0.22	0.45	1.5

Sample ID: **EX DEMO 121210 DW 001** Media: MCE Filter Collected: 12/10/2012
Lab ID: 1234606003 Sampling Location: Exide Frisco Received: 12/11/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 1999 L** **Prepared:** 12/11/2012 **Analyzed:** 12/11/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.45	<0.23	0.45	1.5

ANALYTICAL REPORT

Workorder: **34-1234606**
Client Project ID: 21252/Exide Frisco 121112
Purchase Order: 21252
Project Manager: Paul Pope

Analytical Results

Sample ID: **EX DEMO 121210 UW 605** Media: MCE Filter Collected: 12/10/2012
Lab ID: 1234606004 Sampling Location: Exide Frisco Received: 12/11/2012

Method: **NIOSH 7300 Mod.** **Sampling Parameter:** **Air Volume 1927 L** **Prepared:** 12/11/2012 **Analyzed:** 12/11/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.012	0.023	0.075
Lead	<0.45	<0.23	0.45	1.5

Comments

Quality Control: **NIOSH 7300 Mod. - (HBN: 99063)**

The MCE LMB 313284 was above the reporting limit for magnesium equivalent to 2.16 µg/sample so the LCS 313285 and LCSD 313286 results have been media blank corrected for magnesium with LMB 313284.

Report Authorization

Method	Analyst	Peer Review
NIOSH 7300 Mod.	Penny A. Foote	Peter P. Steen

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsslc.com

ANALYTICAL REPORT

Workorder: **34-1234606**
Client Project ID: 21252/Exide Frisco 121112
Purchase Order: 21252
Project Manager: Paul Pope

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACLASS (DoD ELAP)	ADE-1420	http://www.aclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:			
CPSC	ACLASS (ISO 17025, CPSC)	ADE-1420	http://www.aclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.
LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.
ND = Not Detected, Testing result not detected above the LOD or LOQ.
** No result could be reported, see sample comments for details.
< This testing result is less than the numerical value.
( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1234606**

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: IH Metals, MCE Prep
Batch: IIPX/11551 (HBN: 98951)
Prepared By: Whitney Redd

Analysis: IH Metals QC
Batch: IICP/7680 (HBN: 99063)
Analyzed By: Penny A. Foote

Blank

Blank: 313283
Analyzed: 12/11/2012 15:39
Units: ug/sample

Analyte	Result	MDL	RL
Cadmium	ND	0.0225	0.075
Lead	ND	0.453	1.51

LMB: 313284
Analyzed: 12/11/2012 15:42
Units: ug/sample

Analyte	Result	MDL	RL
Cadmium	ND	0.0225	0.075
Lead	ND	0.453	1.51

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 313285
Analyzed: 12/11/2012 15:46
Units: ug/sample

LCSD: 313286
Analyzed: 12/11/2012 15:49

Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits	
Cadmium	10.6	10	106	89.8	112.5	10.7	1.32	0	15
Lead	101	100	101	88	115	103	1.89	0	15

Comments

The MCE LMB 313284 was above the reporting limit for magnesium equivalent to 2.16 µg/sample so the LCS 313285 and LCSD 313286 results have been media blank corrected for magnesium with LMB 313284.

QC Data Approved and Reviewed by

Penny A. Foote	Peter P. Steen	12/12/2012
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - Analyte above reporting limit or outside of control limits
▲ - Sample result is greater than 4 times the spike added
⬟ - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Environmental Laboratory			LRC Date: 12/28/12				
Project Name: Exide, Frisco			Laboratory Job Number: 1234606				
Reviewer Name: Paul Pope			Prep Batch Number(s):				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?		X			
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?			X		
		Were all necessary corrective actions performed for the reported data?			X		
		Was applicable and available technology used to lower the SDL minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?			X		

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Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Environmental Laboratory			Laboratory Name: 12/28/12				
Project Name: Exide, Frisco			Project Name: 1234606				
Reviewer Name: Paul Pope			Reviewer Name: Paul Pope				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
3. NA = Not Applicable;
4. NR = Not Reviewed;
5. R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Environmental Laboratory		LRC Date: 12/28/12
Project Name: Exide, Frisco		Laboratory Job Number: 1234606
Reviewer Name: Paul Pope		Prep Batch Number(s):
ER#[5]	**Description**	

W 1234606

Chain of Custody

1234606

1. ☐ **REGULAR Status**

☒ **RUSH Status Requested - ADDITIONAL CHARGE**
RESULTS REQUIRED BY 12.12.12
DATE
CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 12.10.12 Purchase Order No. 21252

3. Company Name Remediation Services, inc.
Address PO Box 587
Independence, KS 67301
Person to Contact: Grant Sherwood
Telephone (620) 331-1200
Fax Telephone (620) 331-6216
E-mail Address gsherwood@rsi-ks.com
Billing Address (if different from above)

4. Quote No.
ALS Project Manager Paul Pope

5. **Sample Collection**
Sampling Site: Exide Frisco
Industrial Process: Decontamination and Demo
Date of Collection 12.10.12
Time Collected 7:00 - 17:00
Date of Shipment 12.10.12

Send Results to: gsherwood@rsi-ks.com, jrgillman@rsi-ks.com, vanessa.coleman@na.exide.com, droth@rsi-ks.com

Send Invoice to : strotter@rsi-ks.com

7. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	EXDEMO 121210 DW 607	37 um MCE	19931	NIOSH 7303 - Lead and Cadmium	ug/m^3
	EXDEMO 121210 DW 526	37 um MCE	20561	NIOSH 7303 - Lead and Cadmium	ug/m^3
	EXDEMO 121210 DW 001	37 um MCE	19991	NIOSH 7303 - Lead and Cadmium	ug/m^3
	EXDEMO 121210 UW 605	37 um MCE	19271	NIOSH 7303 - Lead and Cadmium	ug/m^3
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m^3
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m^3

EX-DEMO = Project (Exide-Demolition)
YYMMDD = Sampling date (e.g., 11/01/2012 = 121101)
LOC = Sample Location (e.g. UW = Upwind, DW = Downwind)
XXX = E-BAM Monitor Sample Association – Last 3 digits of Serial Number,
QQ = Optional QA sample flag (TB = trip blank, FB = field blank, SC = duplicate)

Comments

Possible Contamination and/or Chemical Hazards: Lead and cadmium

7. Chain of Custody (Optional)

Relinquished by Johnny Gillman Date/Time 12.10.12 19:00
Received by [signature] Date/Time 12/11/12 1005
Relinquished by Date/Time
Received by Date/Time

960 West LeVoy Drive / Salt Lake City, UT 84123 **800-356-9135 or 801-266-7700 / FAX: 801-268-9992**
ALS Laboratory Group

ANALYTICAL REPORT

Report Date: December 14, 2012

Grant Sherwood
Remediation Services, Inc.
P.O. Box 587
2735 South 10th Street
Independence, KS 67301

Phone: (620) 331-1200
Fax: (620) 331-6216
E-mail: gsherwood@rsi-ks.com

Workorder: **34-1234818**
Client Project ID: 21252/Exide Frisco 121312
Purchase Order: 21252
Project Manager: Paul Pope

Analytical Results

Sample ID: **EX DEMO 121212 DW 001** Media: MCE Filter Collected: 12/12/2012
Lab ID: 1234818001 Sampling Location: Exide Frisco Received: 12/13/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 2037 L** **Prepared:** 12/13/2012 **Analyzed:** 12/14/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.47	<0.23	0.47	1.6

Sample ID: **EX DEMO 121212 DW 607** Media: MCE Filter Collected: 12/12/2012
Lab ID: 1234818002 Sampling Location: Exide Frisco Received: 12/13/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 1975 L** **Prepared:** 12/13/2012 **Analyzed:** 12/14/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.47	<0.24	0.47	1.6

Sample ID: **EX DEMO 121212 DW 526** Media: MCE Filter Collected: 12/12/2012
Lab ID: 1234818003 Sampling Location: Exide Frisco Received: 12/13/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 2023 L** **Prepared:** 12/13/2012 **Analyzed:** 12/14/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.47	<0.23	0.47	1.6

ANALYTICAL REPORT

Workorder: **34-1234818**
Client Project ID: 21252/Exide Frisco 121312
Purchase Order: 21252
Project Manager: Paul Pope

Analytical Results

Sample ID: **EX DEMO 121212 FB** Media: MCE Filter Collected: 12/12/2012
Lab ID: 1234818004 Sampling Location: Exide Frisco Received: 12/13/2012

Method: **NIOSH 7300 Mod.** **Sampling Parameter:** **Air Volume Not Applicable** **Prepared:** 12/13/2012 **Analyzed:** 12/14/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	NA	0.023	0.075
Lead	<0.47	NA	0.47	1.6

Comments

Quality Control: **NIOSH 7300 Mod. - (HBN: 99252)**

The MCE LMB 313909 was above the reporting limit for magnesium equivalent to 2.21 µg/sample so the LCS 313910 and LCSD 313911 results have been media blank corrected for magnesium with LMB 313909.

The MCE LMB 313966 was above the reporting limit for magnesium equivalent to 1.99 µg/sample so the LCS 313967 and LCSD 313968 results have been media blank corrected for magnesium with LMB 313966.

Report Authorization

Method	Analyst	Peer Review
NIOSH 7300 Mod.	Peter P. Steen	Penny A. Foote

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsslc.com

ANALYTICAL REPORT

Workorder: **34-1234818**
Client Project ID: 21252/Exide Frisco 121312
Purchase Order: 21252
Project Manager: Paul Pope

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

All quality control samples processed with the samples in this report yielded acceptable results unless otherwise noted.

ALS is accredited for specific fields of testing (scopes) in the following testing sectors. The quality system implemented at ALS conforms to accreditation requirements and is applied to all analytical testing performed by ALS. The following table lists testing sector, accreditation body, accreditation number and website. Please contact these accrediting bodies or your ALS project manager for the current scope of accreditation that applies to your analytical testing.

Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACLASS (DoD ELAP)	ADE-1420	http://www.aclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:			
CPSC	ACLASS (ISO 17025, CPSC)	ADE-1420	http://www.aclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.
LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.
ND = Not Detected, Testing result not detected above the LOD or LOQ.
** No result could be reported, see sample comments for details.
< This testing result is less than the numerical value.
( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1234818**

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: IH Metals, MCE Prep
Batch: IIPX/11569 (HBN: 99143)
Prepared By: Adam K. Taft

Analysis: IH Metals QC
Batch: IICP/7692 (HBN: 99252)
Analyzed By: Peter P. Steen

Blank

Blank: 313908
Analyzed: 12/13/2012 23:14
Units: ug/sample

Analyte	Result	MDL	RL
Cadmium	ND	0.0225	0.075
Lead	ND	0.465	1.55

LMB: 313909
Analyzed: 12/13/2012 23:17
Units: ug/sample

Analyte	Result	MDL	RL
Cadmium	ND	0.0225	0.075
Lead	ND	0.465	1.55

Blank: 313965
Analyzed: 12/14/2012 09:28
Units: ug/sample

Analyte	Result	MDL	RL
Cadmium	ND	0.0225	0.075
Lead	ND	0.465	1.55

LMB: 313966
Analyzed: 12/14/2012 09:32
Units: ug/sample

Analyte	Result	MDL	RL
Cadmium	ND	0.0225	0.075
Lead	ND	0.465	1.55

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 313910
Analyzed: 12/13/2012 23:21
Units: ug/sample

LCSD: 313911
Analyzed: 12/13/2012 23:24

Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits	
Cadmium	9.66	10	96.6	89.8	112.5	9.6	0.634	0	15
Lead	99.5	100	99.5	88	115	99.3	0.271	0	15

LCS: 313967
Analyzed: 12/14/2012 09:36
Units: ug/sample

LCSD: 313968
Analyzed: 12/14/2012 09:39

Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits	
Cadmium	9.82	10	98.2	89.8	112.5	9.9	0.817	0	15
Lead	99.2	100	99.2	88	115	100	0.81	0	15

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1234818**

Limits: Historical/Performance	**Preparation:** IH Metals, MCE Prep	**Analysis:** IH Metals QC
Basis: ALS Laboratory Group	**Batch:** IIPX/11569 (HBN: 99143)	**Batch:** IICP/7692 (HBN: 99252)
	Prepared By: Adam K. Taft	**Analyzed By:** Peter P. Steen

Comments

The MCE LMB 313909 was above the reporting limit for magnesium equivalent to 2.21 µg/sample so the LCS 313910 and LCSD 313911 results have been media blank corrected for magnesium with LMB 313909.

The MCE LMB 313966 was above the reporting limit for magnesium equivalent to 1.99 µg/sample so the LCS 313967 and LCSD 313968 results have been media blank corrected for magnesium with LMB 313966.

QC Data Approved and Reviewed by

Peter P. Steen	Penny A. Foote	12/14/2012
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - Analyte above reporting limit or outside of control limits
▲ - Sample result is greater than 4 times the spike added
◓ - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Environmental Laboratory			LRC Date: 12/28/12				
Project Name: Exide, Frisco			Laboratory Job Number: 1234818				
Reviewer Name: Paul Pope			Prep Batch Number(s):				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?		X			
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?			X		
		Were all necessary corrective actions performed for the reported data?			X		
		Was applicable and available technology used to lower the SDL minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?			X		

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Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Environmental Laboratory			Laboratory Name: 12/28/12				
Project Name: Exide, Frisco			Project Name: 1234818				
Reviewer Name: Paul Pope			Reviewer Name: Paul Pope				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
3. NA = Not Applicable;
4. NR = Not Reviewed;
5. R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Environmental Laboratory		LRC Date: 12/28/12
Project Name: Exide, Frisco		Laboratory Job Number: 1234818
Reviewer Name: Paul Pope		Prep Batch Number(s):
ER#[5]	**Description**	

[For lab use only]

ANALYTICAL REQUEST FORM

1. ☐ **REGULAR Status**

☒ **RUSH Status Requested - ADDITIONAL CHARGE**
RESULTS REQUIRED BY 12·14·12 (DATE)
CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 12·12·12 Purchase Order No. 21252

3. Company Name REMEDIATION SERVICES, INC.
Address PO BOX 587
INDEPENDENCE, KS 67301
Person to Contact GRANT SHERWOOD
Telephone ( ) 620-331-1200
Fax Telephone ( ) 620-331-6216
E-mail Address GSHERWOOD@RSI-KS.COM
~~Billing Address~~ (if different from above) SEND RESULTS TO:
GSHERWOOD@RSI-KS.COM, JRGILLMAN@RSI-KS.COM
VANESSA.COLEMAN@NA.EXIDE.COM, DROTH@RSI-KS.COM
SEND INVOICE TO: STROTTER@RSI-KS.COM

4. Quote No.
ALS Project Manager PAUL POPE

5. **Sample Collection**
Sampling Site EXIDE FRISCO
Industrial Process
Date of Collection 12·12·12
Time Collected 7:00 - 15:00
Date of Shipment 12·12·12
Chain of Custody No. N/A

6. How did you first learn about ALS?

7. **REQUEST FOR ANALYSES**

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	EXDECON 121212 KT 007	37mm MCE	978L	NIOSH 7303-LEAD+CADMIUM	ug/m3
	EXDECON 121212 JS 008	37mm MCE	990L	NIOSH 7303-LEAD+CADMIUM	ug/m3

* Specify: Solid sorbent tube, e.g. Charcoal; Filter type; Impinger solution; Bulk sample; Blood; Urine; Tissue; Soil; Water; Other

** 1. µg/sample 2. mg/m^3 3. ppm 4. % 5. µg/m^3 6.____ (other) Please indicate one or more units in the column entitled Units**

Comments

Possible Contamination and/or Chemical Hazards LEAD + CADMIUM

7. **Chain of Custody (Optional)**

Relinquished by	JOHNNY GILLMAN	Date/Time	12.12.12 18:30
Received by		Date/Time	12-13-12 10:00
Relinquished by		Date/Time	
Received by		Date/Time	

ANALYTICAL REPORT

Report Date: December 18, 2012

Grant Sherwood
Remediation Services, Inc.
P.O. Box 587
2735 South 10th Street
Independence, KS 67301

Phone: (620) 331-1200
Fax: (620) 331-6216
E-mail: gsherwood@rsi-ks.com

Workorder: **34-1235212**
Client Project ID: 21252/Exide Frisco 121712
Purchase Order: 21252
Project Manager: Paul Pope

Analytical Results

Sample ID: **EX DEMO 121214 DW 001** Media: MCE Filter Collected: 12/14/2012
Lab ID: 1235212001 Sampling Location: Exide Frisco Received: 12/17/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 2013 L** **Prepared:** 12/17/2012 **Analyzed:** 12/17/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.38	<0.19	0.38	1.3

Sample ID: **EX DEMO 121214 DW 526** Media: MCE Filter Collected: 12/14/2012
Lab ID: 1235212002 Sampling Location: Exide Frisco Received: 12/17/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 1999 L** **Prepared:** 12/17/2012 **Analyzed:** 12/17/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.38	<0.19	0.38	1.3

Sample ID: **EX DEMO 121214 DW 607** Media: MCE Filter Collected: 12/14/2012
Lab ID: 1235212003 Sampling Location: Exide Frisco Received: 12/17/2012

Method: NIOSH 7300 Mod. **Sampling Parameter: Air Volume 2056 L** **Prepared:** 12/17/2012 **Analyzed:** 12/17/2012

Analyte	ug/sample	ug/m³	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.38	<0.18	0.38	1.3

Report Authorization

Method	Analyst	Peer Review
NIOSH 7300 Mod.	Peter P. Steen	Penny A. Foote

ANALYTICAL REPORT

Workorder: **34-1235212**
Client Project ID: 21252/Exide Frisco 121712
Purchase Order: 21252
Project Manager: Paul Pope

Laboratory Contact Information

ALS Environmental
960 W Levoy Drive
Salt Lake City, Utah 84123

Phone: (801) 266-7700
Email: alslt.lab@ALSGlobal.com
Web: www.alsslc.com

General Lab Comments

The results provided in this report relate only to the items tested.
Samples were received in acceptable condition unless otherwise noted.
Samples have not been blank corrected unless otherwise noted.
This test report shall not be reproduced, except in full, without written approval of ALS.

ALS provides professional analytical services for all samples submitted. ALS is not in a position to interpret the data and assumes no responsibility for the quality of the samples submitted.

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Testing Sector	Accreditation Body (Standard)	Certificate Number	Website
Environmental	ACLASS (DoD ELAP)	ADE-1420	http://www.aclasscorp.com
	Utah (NELAC)	DATA1	http://health.utah.gov/lab/labimp/
	Nevada	UT00009	http://ndep.nv.gov/bsdw/labservice.htm
	Oklahoma	UT00009	http://www.deq.state.ok.us/CSDnew/
	Iowa	IA# 376	http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx
	Florida (TNI)	E871067	http://www.dep.state.fl.us/labs/bars/sas/qa/
	Texas (TNI)	T104704456-11-1	http://www.tceq.texas.gov/field/qa/lab_accred_certif.html
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	http://www.aihaaccreditedlabs.org
Lead Testing:			
CPSC	ACLASS (ISO 17025, CPSC)	ADE-1420	http://www.aclasscorp.com
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	http://www.aihaaccreditedlabs.org
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	http://www.aclasscorp.com

Definitions

LOD = Limit of Detection = MDL = Method Detection Limit, A statistical estimate of method/media/instrument sensitivity.
LOQ = Limit of Quantitation = RL = Reporting Limit, A verified value of method/media/instrument sensitivity.
ND = Not Detected, Testing result not detected above the LOD or LOQ.
** No result could be reported, see sample comments for details.
< This testing result is less than the numerical value.
( ) This testing result is between the LOD and LOQ and has higher analytical uncertainty than values at or above the LOQ.

Quality Control Sample
Batch Report

Analysis Information

Workorder: **1235212**

Limits: Historical/Performance
Basis: ALS Laboratory Group

Preparation: IH Metals, MCE Prep
Batch: IIPX/11581 (HBN: 99359)
Prepared By: Adam K. Taft

Analysis: IH Metals QC
Batch: IICP/7700 (HBN: 99430)
Analyzed By: Peter P. Steen

Blank

Blank: 314341
Analyzed: 12/17/2012 16:41
Units: ug/sample

Analyte	Result	MDL	RL
Cadmium	ND	0.0225	0.075
Lead	ND	0.375	1.25

LMB: 314342
Analyzed: 12/17/2012 16:45
Units: ug/sample

Analyte	Result	MDL	RL
Cadmium	ND	0.0225	0.075
Lead	ND	0.375	1.25

Laboratory Control Sample - Laboratory Control Sample Duplicate

LCS: 314343
Analyzed: 12/17/2012 16:48
Units: ug/sample

LCSD: 314344
Analyzed: 12/17/2012 16:51

Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits	
Cadmium	10.1	10	101	89.8	112.5	10	0.371	0	15
Lead	101	100	101	88	115	101	0.027	0	15

QC Data Approved and Reviewed by

Peter P. Steen	Penny A. Foote	12/18/2012
Analyst	**Peer Review**	**Date**

Symbols and Definitions

* - Analyte above reporting limit or outside of control limits
▲ - Sample result is greater than 4 times the spike added
◆ - Sample and Matrix Duplicate less than 5 times the reporting limit

RPD - Relative % Difference (Spike / Spike Duplicate)
ND - Not Detected
QC results are not adjusted for moisture correction, where applicable

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Environmental Laboratory			LRC Date: 12/28/12				
Project Name: Exide, Frisco			Laboratory Job Number: 1235212				
Reviewer Name: Paul Pope			Prep Batch Number(s):				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
R1	OI	**Chain-of-custody (C-O-C)**					
		Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				
		Were all departures from standard conditions described in an exception report?			X		
R2	OI	**Sample and quality control (QC) identification**					
		Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	**Test reports**					
		Were all samples prepared and analyzed within holding times?	X				
		Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		Were calculations checked by a peer or supervisor?	X				
		Were all analyte identifications checked by a peer or supervisor?	X				
		Were sample detection limits reported for all analytes not detected?	X				
		Were all results for soil and sediment samples reported on a dry weight basis?			X		
		Were % moisture (or solids) reported for all soil and sediment samples?			X		
		Were bulk soils/solids samples for volatile analysis extracted with methanol per SW-846 Method 5035?			X		
		If required for the project, TICs reported?			X		
R4	O	**Surrogate recovery data**					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	**Test reports/summary forms for blank samples**					
		Were appropriate type(s) of blanks analyzed?	X				
		Were blanks analyzed at the appropriate frequency?	X				
		Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		Were blank concentrations < MQL?	X				
R6	OI	**Laboratory control samples (LCS):**					
		Were all COCs included in the LCS?	X				
		Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		Were LCSs analyzed at the required frequency?	X				
		Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		Was the LCSD RPD within QC limits?	X				
R7	OI	**Matrix spike (MS) and matrix spike duplicate (MSD) data**					
		Were the project/method specified analytes included in the MS and MSD?			X		
		Were MS/MSD analyzed at the appropriate frequency?			X		
		Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?			X		
		Were MS/MSD RPDs within laboratory QC limits?			X		
R8	OI	**Analytical duplicate data**					
		Were appropriate analytical duplicates analyzed for each matrix?			X		
		Were analytical duplicates analyzed at the appropriate frequency?			X		
		Were RPDs or relative standard deviations within the laboratory QC limits?			X		
R9	OI	**Method quantitation limits (MQLs):**					
		Are the MQLs for each method analyte included in the laboratory data package?	X				
		Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		Are unadjusted MQLs and DCSs included in the laboratory data package?		X			
R10	OI	**Other problems/anomalies**					
		Are all known problems/anomalies/special conditions noted in this LRC and ER?			X		
		Were all necessary corrective actions performed for the reported data?			X		
		Was applicable and available technology used to lower the SDL minimize the matrix interference affects on the sample results?	X				
		Is the laboratory NELAC-accredited under the Texas Laboratory Program for the analytes, matrices and methods associated with this laboratory data package?			X		

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Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Environmental Laboratory			Laboratory Name: 12/28/12				
Project Name: Exide, Frisco			Project Name: 1235212				
Reviewer Name: Paul Pope			Reviewer Name: Paul Pope				
#[1]	**A[2]**	**Description**	**Yes**	**No**	**NA[3]**	**NR[4]**	**ER#[5]**
S1	OI	**Initial calibration (ICAL)**					
		Were response factors and/or relative response factors for each analyte within QC limits?			X		
		Were percent RSDs or correlation coefficient criteria met?	X				
		Was the number of standards recommended in the method used for all analytes?	X				
		Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		Are ICAL data available for all instruments used?	X				
		Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	**Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)**					
		Was the CCV analyzed at the method-required frequency?	X				
		Were percent differences for each analyte within the method-required QC limits?	X				
		Was the ICAL curve verified for each analyte?	X				
		Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	**Mass spectral tuning:**					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	**Internal standards (IS):**					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	**Raw data** (NELAC section 1 appendix A glossary, and section 5.12 or ISO/IEC 17025 section					
		Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		Were data associated with manual integrations flagged on the raw data?			X		
S6	O	**Dual column confirmation**					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	**Tentatively identified compounds (TICs):**					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	**Interference Check Sample (ICS) results:**					
		Were percent recoveries within method QC limits?	X				
S9	I	**Serial dilutions, post digestion spikes, and method of standard additions**					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	**Method detection limit (MDL) studies**					
		Was a MDL study performed for each reported analyte?	X				
		Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	**Proficiency test reports:**					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	**Standards documentation**					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	**Compound/analyte identification procedures**					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	**Demonstration of analyst competency (DOC)**					
		Was DOC conducted consistent with NELAC Chapter 5C or ISO/IEC 4?	X				
		Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	**Verification/validation documentation for methods** (NELAC Chap 5 or ISO/IEC 17025 Section 5)					
		Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	**Laboratory standard operating procedures (SOPs):**					
		Are laboratory SOPs current and on file for each method performed?	X				

1. Items identified by the letter "R" must be included in the laboratory data package submitted in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
2. O = Organic Analyses; I = Inorganic Analyses (and general chemistry, when applicable);
3. NA = Not Applicable;
4. NR = Not Reviewed;
5. R# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

Laboratory Review Checklist: Reportable Data		
Laboratory Name: ALS Environmental Laboratory		LRC Date: 12/28/12
Project Name: Exide, Frisco		Laboratory Job Number: 1235212
Reviewer Name: Paul Pope		Prep Batch Number(s):
ER#[5]	**Description**	

W 1235212

Chain of Custody

1235212

1. ☐ **REGULAR Status**

☒ **RUSH Status Requested - ADDITIONAL CHARGE**
RESULTS REQUIRED BY 12.17.12
DATE
CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 12.14.12 Purchase Order No. 21252

3. Company Name Remediation Services, inc.
Address PO Box 587
Independence, KS 67301
Person to Contact: Grant Sherwood
Telephone (620) 331-1200
Fax Telephone (620) 331-6216
E-mail Address gsherwood@rsi-ks.com
Billing Address (if different from above)

4. Quote No.
ALS Project Manager Paul Pope

5. **Sample Collection**
Sampling Site: Exide Frisco
Industrial Process: Decontamination and Demo
Date of Collection 12.14.12
Time Collected 7:00 - 17:00
Date of Shipment 12.14.12

Send Results to: gsherwood@rsi-ks.com, jrgillman@rsi-ks.com, vanessa.coleman@na.exide.com, droth@rsi-ks.com

Send Invoice to : strotter@rsi-ks.com

7. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	EX DEMO 121214 DW 001	37 um MCE	2013L	NIOSH 7303 - Lead and Cadmium	ug/m^3
	EXDEMO 121214 DW 526	37 um MCE	1999L	NIOSH 7303 - Lead and Cadmium	ug/m^3
	EX DEMO 121214 DW 1007	37 um MCE	2056L	NIOSH 7303 - Lead and Cadmium	ug/m^3
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m^3
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m^3
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m^3

EX-DEMO = Project (Exide-Demolition)
YYMMDD = Sampling date (e.g., 11/01/2012 = 121101)
LOC = Sample Location (e.g. UW = Upwind, DW = Downwind)
XXX = E-BAM Monitor Sample Association – Last 3 digits of Serial Number,
QQ = Optional QA sample flag (TB = trip blank, FB = field blank, SC = duplicate)

Comments

Possible Contamination and/or Chemical Hazards: Lead and cadmium

7. Chain of Custody (Optional)

Relinquished by Johnny Gillman Date/Time 12.14.12 18:30
Received by Date/Time 12/17/12 1000
Relinquished by Date/Time
Received by Date/Time

960 West LeVoy Drive / Salt Lake City, UT 84123 **800-356-9135 or 801-266-7700 / FAX: 801-268-9992**
ALS Laboratory Group