



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  
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 3, 2012 through Saturday December 8, 2012**. Site activities being conducted during this reporting period are noted below:

<input checked="" type="checkbox"/>	Decontamination	<input type="checkbox"/>	Facility Demolition	<input type="checkbox"/>	Landfill Remediation
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The following Worksheets, Data Sheets or Reports are included within this submittal:

		Description	Details	Remarks
<input checked="" type="checkbox"/>	A	Daily Summary Report	Real-time Particulate Monitoring , Wind Speed & Direction	
<input type="checkbox"/>	B	Take Action/Stop Work Notifications	Response actions taken due to high wind or elevated real-time particulate readings	
<input checked="" type="checkbox"/>	C	Field Data Sheet – E-BAMs	E-BAM particulate monitoring positions and locations	
<input checked="" type="checkbox"/>	D	Field Data Sheet – Low Vols	Details for low-volume samples for Pd/Cd	
<input checked="" type="checkbox"/>	E	Analytical Report – Metals Analysis	Laboratory Data Report for Pb/Cd in air samples	
<input type="checkbox"/>	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 G4526 30-min avg (mg/m <sup>3</sup> )	E-BAM F5001 30-min avg (mg/m <sup>3</sup> )	E-BAM G4606 30-min avg (mg/m <sup>3</sup> )	E-BAM G4607 30-min avg (mg/m <sup>3</sup> )	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/3/2012	07:00-07:29	0.021		0.016	0.007	184	14.2
	07:30-07:59	0.014	0.023	0.010	0.019	183	16.0
	08:00-08:29		0.012	0.039	0.022	183	13.8
	08:30-08:59	0.018	0.026	0.011	0.012	196	16.2
	09:00-09:29	0.024	0.020	0.015		197	15.9
	09:30-09:59	0.040	0.022	0.017		195	16.5
	10:00-10:29	0.027	0.018	0.018	0.016	187	17.7
	10:30-10:59	0.016	0.019	0.015	0.008	181	17.2
	11:00-11:29	0.006		0.025	0.002	181	16.2
	11:30-11:59	0.002	0.014	0.013	0.001	184	16.6
	12:00-12:29		0.005	0.018	0.013	188	18.9
	12:30-12:59	0.014	0.013		0.014	201	19.4
	13:00-13:29	0.029	0.011	0.031	0.011	196	17.9
	13:30-13:59	0.067	0.005	0.018		182	17.8
	14:00-14:29	0.037	0.017	0.015	0.020	175	17.1
	14:30-14:59	0.021		0.013	0.007	179	17.1
	15:00-15:29	0.015	0.017	0.013	0.013	192	18.4
	15:30-15:59	0.017	0.010		0.015	190	15.0
	16:00-16:29	0.009	0.015		0.011	185	17.9
	16:30-16:59	0.008	0.011	0.008	0.013	182	13.6
	17:00-17:29	0.022				185	12.8
	17:30-17:59					181	10.1

**Notes:**

- **BOLD** = Take Action Level Exceeded for Particulates (0.100 mg/m<sup>3</sup>)
- ***Bold and Italic*** = Stop Work Level Exceeded for Particulates (0.200 mg/m<sup>3</sup>)
- Pink shading indicates values below 0 mg/m<sup>3</sup> and should be evaluated for usability 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 G4606 30-min avg (mg/m <sup>3</sup> )	E-BAM F5001 30-min avg (mg/m <sup>3</sup> )	E-BAM G4526 30-min avg (mg/m <sup>3</sup> )	E-BAM G4607 30-min avg (mg/m <sup>3</sup> )	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Downwind	Downwind	Upwind	Downwind		
12/4/2012	07:00-07:29	0.015	0.016	0.006	0.018	294	4.8
	07:30-07:59	0.009	0.023	0.011	0.017	298	5.6
	08:00-08:29	0.002	0.017	0.014	0.017	318	6.1
		Upwind	Downwind	Downwind	Downwind		
	08:30-08:59		0.020		0.015	329	10.0
	09:00-09:29			0.000		322	11.8
	09:30-09:59		0.020	0.029	0.050	218	11.6
	10:00-10:29		0.039		0.050	239	11.8
	10:30-10:59		0.029	-0.001	0.050	263	12.1
	11:00-11:29		0.009			284	10.4
	11:30-11:59		0.027		0.050	296	12.4
	12:00-12:29		0.024	0.025	0.048	257	9.8
	12:30-12:59		0.012	0.027	0.037	234	10.1
	13:00-13:29		0.014	0.016	0.018	202	11.6
	13:30-13:59		0.018	0.020	0.041	179	13.0
	14:00-14:29		0.011	0.023	0.029	181	12.2
	14:30-14:59		0.019	0.025	0.026	161	11.5
	15:00-15:29					214	10.9
	15:30-15:59					242	10.6
	16:00-16:29					135	10.9
	16:30-16:59					59	9.1
	17:00-17:29					105	8.4
	17:30-17:59					43	8.4

**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 <sup>3</sup> )	E-BAM F5001 30-min avg (mg/m <sup>3</sup> )	E-BAM G4526 30-min avg (mg/m <sup>3</sup> )	E-BAM G4607 30-min avg (mg/m <sup>3</sup> )	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/5/2012	07:00-07:29		0.034	0.006	0.014	320	4.0
	07:30-07:59		0.022	0.009	0.009	330	3.9
	08:00-08:29		0.030	0.013	0.012	309	4.6
	08:30-08:59		0.018	0.024	0.022	315	3.7
	09:00-09:29		0.029	0.032	0.034	282	4.1
	09:30-09:59		0.024	0.023	0.041	150	3.8
	10:00-10:29		0.020	0.022	0.029	63	6.7
	10:30-10:59		0.017	0.019	0.021	63	7.3
	11:00-11:29		0.010	0.016	0.016	61	5.9
	11:30-11:59		0.017	0.015	0.032	75	4.7
	12:00-12:29		0.013	0.010		72	5.1
	12:30-12:59		0.015	0.010	0.004	81	4.6
	13:00-13:29		0.037		-0.005	85	4.9
	13:30-13:59		0.037	0.000	-0.005	75	4.9
	14:00-14:29			0.000	-0.005	86	6.2
	14:30-14:59			0.000	-0.005	103	5.3
	15:00-15:29			0.000	-0.005	87	5.8
	15:30-15:59			0.000	-0.005	117	7.9
	16:00-16:29	0.034		0.000	-0.005	118	7.2
	16:30-16:59	0.017	0.009	0.000	-0.005	112	6.8
	17:00-17:29	0.014	-0.005	0.000	-0.005	115	6.6
	17:30-17:59	0.021	-0.005	0.000	-0.005	115	6.6

**Notes:**

- **BOLD** = Take Action Level Exceeded for Particulates (0.100 mg/m<sup>3</sup>)
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- Pink shading indicates values below 0 mg/m<sup>3</sup> and should be evaluated for usability 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 <sup>3</sup> )	E-BAM F5001 30-min avg (mg/m <sup>3</sup> )	E-BAM G4526 30-min avg (mg/m <sup>3</sup> )	E-BAM G4607 30-min avg (mg/m <sup>3</sup> )	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/6/2012	07:00-07:29	0.082				168	4.0
	07:30-07:59					175	3.9
	08:00-08:29			0.023	0.008	174	4.6
	08:30-08:59			0.023	0.019	163	3.7
	09:00-09:29			0.021	0.073	158	4.1
	09:30-09:59		0.041	0.067	0.032	163	3.8
	10:00-10:29	<b>0.102</b>	0.016	0.036	0.002	162	6.7
	10:30-10:59	<b>0.102</b>	0.034	0.020	0.017	162	7.3
	11:00-11:29	0.030	0.019	0.014	0.017	158	5.9
	11:30-11:59	0.015	0.016	0.012	0.017	158	4.7
	12:00-12:29	0.016	0.016	0.020	0.009	158	5.1
	12:30-12:59	0.017	0.017	0.021	0.030	157	4.6
	13:00-13:29	0.014	0.017	0.019	0.019	155	4.9
	13:30-13:59	0.036	0.006	0.027	0.013	154	4.9
	14:00-14:29	0.020	0.018	0.027	0.013	147	6.2
	14:30-14:59	0.027	0.015	0.014	0.016	149	5.3
	15:00-15:29	0.017	0.008	0.019	0.020	158	5.8
	15:30-15:59	0.036	0.018	0.014	0.016	160	7.9
	16:00-16:29	0.020	0.019	0.010	0.016	164	7.2
	16:30-16:59	0.024	0.010	0.027	0.029	167	6.8
	17:00-17:29	0.020	0.017	0.011	0.016	165	6.6
	17:30-17:59	0.029	0.019	0.014	0.018	172	6.6

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- 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 <sup>3</sup> )	E-BAM F5001 30-min avg (mg/m <sup>3</sup> )	E-BAM G4526 30-min avg (mg/m <sup>3</sup> )	E-BAM G4607 30-min avg (mg/m <sup>3</sup> )	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/7/2012	07:00-07:29	0.085	0.027	0.085	0.036	252	6.9
	07:30-07:59	0.022	0.004	0.009	-0.001	249	5.8
	08:00-08:29	0.002	0.003	0.031	0.010	245	6.7
	08:30-08:59	0.004	0.002	0.040	0.003	254	8.1
	09:00-09:29	0.011	0.037	0.011	0.007	241	6.5
	09:30-09:59	0.028	0.008	0.024	0.017	240	6.8
	10:00-10:29	0.015	0.023	0.008	0.013	221	6.3
	10:30-10:59	0.016	0.013	0.018	0.015	215	8.9
	11:00-11:29	0.024	0.011	0.016	0.014	229	8.6
	11:30-11:59	0.020	0.005	0.012	0.023	233	9.3
	12:00-12:29	0.017	0.014	0.025	0.012	223	7.9
	12:30-12:59	0.013	0.023	0.009	0.010	224	9.9
	13:00-13:29	0.021	0.024	0.039	0.018	232	9.2
	13:30-13:59	0.014			0.017	208	8.8
	14:00-14:29	0.020			0.012	219	7.3
	14:30-14:59	0.022	-0.003	0.041	0.026	211	7.4
	15:00-15:29	0.015			0.027	216	7.3
	15:30-15:59					199	6.0
	16:00-16:29					220	6.7
	16:30-16:59					241	4.4
	17:00-17:29					219	2.5
	17:30-17:59					172	2.0

**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 12.3.12

<b>E-BAM SN</b>	<b>G4607</b>
<b>Upwind</b>	
<b>Downwind</b>	<b>X</b>
<b>GPS LOCATION</b>	
Latitude	33° 08.591'
Longitude	96° 49.668'
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	Yes
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:00

<b>E-BAM SN</b>	<b><del>G4605</del></b>
	G4606
<b>Upwind</b>	
<b>Downwind</b>	<b>X</b>
<b>GPS LOCATION</b>	
Latitude	33° 08.585'
Longitude	96° 49.766'
<b>DATE OF LAST EBAM LEAK CHECK</b>	12.1.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	Yes
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:00

<b>E-BAM SN</b>	<b>G4526</b>
<b>Upwind</b>	<b>X</b>
<b>Downwind</b>	
<b>GPS LOCATION</b>	
Latitude	33° 13.562
Longitude	96° 82.725
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	Yes
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	<b>F5001</b>
<b>Upwind</b>	
<b>Downwind</b>	<b>X</b>
<b>GPS LOCATION</b>	
Latitude	33° 08.594'
Longitude	96° 49.766'
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	Yes
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:00

**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 12.4.12

<b>E-BAM SN</b>	<b>G4607</b>
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13666
Longitude	96.82887
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	<del>G4606</del> <b>G4805</b>
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.14308
Longitude	96.82985
<b>DATE OF LAST EBAM LEAK CHECK</b>	12.1.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	7:00
<b>END TIME:</b>	8:30

<b>E-BAM SN</b>	<b>G4526</b>
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13564
Longitude	96.82726
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	<b>F5001</b>
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13556
Longitude	96.82558
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:30

UNIT G4606 FAILED @ 8:30

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

RSI Project No:

21252

Exide, Frisco TX

Project Name: Facility Demolition

Technician Name

Johnny Gorman

Sampling Date

12.5.12

<b>E-BAM SN</b>	G4607
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13666
Longitude	096.82887
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	Yes
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	<del>G4604</del> 64605
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.14328
Longitude	96.82942
<b>DATE OF LAST EBAM LEAK CHECK</b>	12.4.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	16:20
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	G4526
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13564
Longitude	096.82726
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	Yes
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	F5001
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13556
Longitude	096.82558
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	Yes
<b>START TIME:</b>	7:00
<b>END TIME:</b>	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

12-6-12

<b>E-BAM SN</b>	G4607
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.14328
Longitude	96.82942
<b>DATE OF LAST EBAM LEAK CHECK</b>	11-21-12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	8:00
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	G4605
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13572
Longitude	96.82722
<b>DATE OF LAST EBAM LEAK CHECK</b>	12-4-12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	11:00
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	G4526
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.14321
Longitude	96.82783
<b>DATE OF LAST EBAM LEAK CHECK</b>	11-21-12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	8:05
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	F5001
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.14311
Longitude	96.82589
<b>DATE OF LAST EBAM LEAK CHECK</b>	11-21-12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	8:30
<b>END TIME:</b>	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

12-7-12

<b>E-BAM SN</b>	G4607
<b>Upwind</b>	
<b>Downwind</b>	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

<b>E-BAM SN</b>	G4605
<b>Upwind</b>	
<b>Downwind</b>	X
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

<b>E-BAM SN</b>	G4526
<b>Upwind</b>	
<b>Downwind</b>	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

<b>E-BAM SN</b>	F5001
<b>Upwind</b>	
<b>Downwind</b>	X
GPS LOCATION	
Latitude	33.14311
Longitude	96.82589
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

12.8.12

<b>E-BAM SN</b>	G4607
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13565
Longitude	96.82522
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	7:00
<b>END TIME:</b>	13:30

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

<b>E-BAM SN</b>	G4526
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13572
Longitude	96.82722
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:30

<b>E-BAM SN</b>	F5001
<b>Upwind</b>	
<b>Downwind</b>	X
<b>GPS LOCATION</b>	
Latitude	33.13628
Longitude	96.82879
<b>DATE OF LAST EBAM LEAK CHECK</b>	11.21.12
<b>EBAM PAIRED WITH LOW VOL PUMP?</b>	No
<b>START TIME:</b>	7:00
<b>END TIME:</b>	17:30

Moved 4607 @ ~~12:30~~ 12:30 - 15:30  
 TO WEST OF SW E-BAM TO COVER AREA  
 DUE TO SHIFTING WIND

**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:

JOANNY GILLMAN

Date Samples Collected: 12.3.12

Pump No. 23540	1
Upwind	X
Downwind	
Sample ID #	EXDEMD121203DW526
E-Bam Number	64526
Flow Rate: Start (L/min)	2.08 L
Flow Rate: Stop (L/min)	1.94 L
Avg Flow (L/min)	1.97 L
Start time	7:30
End Time	17:30
Duration in minutes	600
Sample Volume (Liters)	1182 L

Pump No. 3015	2
Upwind	
Downwind	X
Sample ID #	EXDEMD121203DW001
E-Bam Number	F5001
Flow Rate: Start (L/min)	3.4 L
Flow Rate: Stop (L/min)	3.17 L
Avg Flow (L/min)	3.29 L
Start time	7:00
End Time	17:00
Duration in minutes	600
Sample Volume (Liters)	1974 L

Pump No. 3014	3
Upwind	
Downwind	X
Sample ID #	EXDEMD121203DW607
E-Bam Number	64607
Flow Rate: Start (L/min)	3.52 L
Flow Rate: Stop (L/min)	3.32 L
Avg Flow (L/min)	3.42 L
Start time	7:05
End Time	17:05
Duration in minutes	600
Sample Volume (Liters)	2052 L

Pump No. 3013	4
Upwind	
Downwind	X
Sample ID #	EXDEMD121203DW606
E-Bam Number	64606
Flow Rate: Start (L/min)	3.48 L
Flow Rate: Stop (L/min)	3.21 L
Avg Flow (L/min)	3.35 L
Start time	6:55
End Time	16:55
Duration in minutes	600
Sample Volume (Liters)	2010 L

Field Blank (if collected) 1 - Per Week Required

Upwind	NA
Downwind	NA
Flow Rate	0
Sample ID #	

x10 PER PUMP

# 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:

12.5.12

Pump No. 3014	1
Upwind	
Downwind	X
Sample ID #	EXDEMO 121205 DW 001
E-Bam Number	F5001
Flow Rate: Start (L/min)	<del>3.38</del> 3.30 L
Flow Rate: Stop (L/min)	3.38 L
Avg Flow (L/min)	3.34 L
Start time	6:59
End Time	17:10
Duration in minutes	611
Sample Volume (Liters)	2041 L

Pump No. 3013	2
Upwind	
Downwind	X
Sample ID #	EXDEMO 121205 DW 007
E-Bam Number	G4607
Flow Rate: Start (L/min)	3.23 L
Flow Rate: Stop (L/min)	3.29 L
Avg Flow (L/min)	3.26 L
Start time	7:06
End Time	17:14
Duration in minutes	608
Sample Volume (Liters)	1982 L

Pump No. 3015	3
Upwind	
Downwind	X
Sample ID #	EXDEMO 121205 DW 526
E-Bam Number	G4526
Flow Rate: Start (L/min)	3.18 L
Flow Rate: Stop (L/min)	3.29 L
Avg Flow (L/min)	3.24 L
Start time	7:03
End Time	17:12
Duration in minutes	609
Sample Volume (Liters)	1973 L

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: 12.7.12

Pump No. <u>3013</u>	<u>1</u>
Upwind	
Downwind	<u>X</u>
Sample ID #	<u>EXDEMD121207DW607</u>
E-Bam Number	<u>64607</u>
Flow Rate: Start (L/min)	<u>3270 mL</u>
Flow Rate: Stop (L/min)	<u>3245 mL</u>
Avg Flow (L/min)	<u>3258 mL</u>
Start time	<u>7:00</u>
End Time	<u>17:09</u>
Duration in minutes	<u>609</u>
Sample Volume (Liters)	<u>1985 L</u>

Pump No. <u>3014</u>	<u>2</u>
Upwind	
Downwind	<u>X</u>
Sample ID #	<u>EXDEMD121207DW526</u>
E-Bam Number	<u>64526</u>
Flow Rate: Start (L/min)	<u>3348 mL</u>
Flow Rate: Stop (L/min)	<u>3333 mL</u>
Avg Flow (L/min)	<u>3341 mL</u>
Start time	<u>7:04</u>
End Time	<u>17:12</u>
Duration in minutes	<u>608</u>
Sample Volume (Liters)	<u>2031 L</u>

Pump No. <u>3015</u>	<u>3</u>
Upwind	
Downwind	<u>X</u>
Sample ID #	<u>EXDEMD121207DW001</u>
E-Bam Number	<u>F5001</u>
Flow Rate: Start (L/min)	<u>3209</u>
Flow Rate: Stop (L/min)	<u>3187</u>
Avg Flow (L/min)	<u>3198</u>
Start time	<u>7:10</u>
End Time	<u>17:15</u>
Duration in minutes	<u>605</u>
Sample Volume (Liters)	<u>1936 L</u>

Pump No.	<u>4</u>
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 05, 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: **34-1233966**  
Client Project ID: 21252/Exide Frisco 120412  
Purchase Order: 21252  
Project Manager: Paul Pope

### Analytical Results

Sample ID: <b>EX DEMO 121203 UW 526</b>		Media: MCE Filter		Collected: 12/03/2012
Lab ID: 1233910003		Sampling Location: Exide Frisco		Received: 12/04/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 1182 L		Prepared: 12/04/2012
				Analyzed: 12/04/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.019	0.023	0.075
Lead	<0.38	<0.32	0.38	1.3

Sample ID: <b>EX DEMO 121203 DW 001</b>		Media: MCE Filter		Collected: 12/03/2012
Lab ID: 1233910004		Sampling Location: Exide Frisco		Received: 12/04/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 1974 L		Prepared: 12/04/2012
				Analyzed: 12/04/2012
Analyte	ug/sample	ug/m <sup>3</sup>	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: <b>EX DEMO 121203 DW 607</b>		Media: MCE Filter		Collected: 12/03/2012
Lab ID: 1233910005		Sampling Location: Exide Frisco		Received: 12/04/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 2052 L		Prepared: 12/04/2012
				Analyzed: 12/04/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<b>(0.78)</b>	<b>(0.38)</b>	0.38	1.3

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, USA 84123 | PHONE +1 801 266 7700 | FAX +1 801 268 9992  
ALS GROUP USA, CORP. Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

[www.alsglobal.com](http://www.alsglobal.com)

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## ANALYTICAL REPORT

Workorder: **34-1233966**

Client Project ID: 21252/Exide Frisco 120412

Purchase Order: 21252

Project Manager: Paul Pope

### Analytical Results

Sample ID: <b>EX DEMO 121203 DW 606</b>		Media: MCE Filter		Collected: 12/03/2012
Lab ID: 1233910006		Sampling Location: Exide Frisco		Received: 12/04/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 2010 L		Prepared: 12/04/2012
				Analyzed: 12/04/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.023	<0.011	0.023	0.075
Lead	<0.38	<0.19	0.38	1.3

### Comments

#### Quality Control: NIOSH 7300 Mod. - (HBN: 98567)

The MCE plus Backup Pad LMB 311834 was above the reporting limit for calcium (27.3 µg/sample), magnesium (4.21 µg/sample), sodium (107 µg/sample), and zinc (0.623 µg/sample) so the LCS 311835 and LCSD 311836 results have been media blank corrected for calcium, magnesium, sodium, and zinc with LMB 311834.

The silver recoveries MCE plus backup pad matrix LCS 311835 and LCSD 311836 were outside of current limits at 42.3% and 42.2%, respectively. The associated MCE only LCS 311790 and LCSD 311791 had silver recoveries within limits. Silver has been observed to fall out of solution when spiked on back-up pad matrix which may be the cause of the low silver recoveries.

### 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](mailto:alslt.lab@ALSGlobal.com)  
Web: [www.alssl.com](http://www.alssl.com)



## ANALYTICAL REPORT

Workorder: **34-1233966**

Client Project ID: 21252/Exide Frisco 120412

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	<a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>
	Utah (NELAC)	DATA1	<a href="http://health.utah.gov/lab/labimp/">http://health.utah.gov/lab/labimp/</a>
	Nevada	UT00009	<a href="http://ndep.nv.gov/bsdwlabservice.htm">http://ndep.nv.gov/bsdwlabservice.htm</a>
	Oklahoma	UT00009	<a href="http://www.deq.state.ok.us/CSDnew/">http://www.deq.state.ok.us/CSDnew/</a>
	Iowa	IA# 376	<a href="http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx">http://www.iowadnr.gov/InsideDNR/RegulatoryWater.aspx</a>
	Florida (TNI)	E871067	<a href="http://www.dep.state.fl.us/labs/bars/sas/qa/">http://www.dep.state.fl.us/labs/bars/sas/qa/</a>
	Texas (TNI)	T104704456-11-1	<a href="http://www.tceq.texas.gov/field/qa/lab_accred_certif.html">http://www.tceq.texas.gov/field/qa/lab_accred_certif.html</a>
Industrial Hygiene	AIHA (ISO 17025 & AIHA IHLAP/ELLAP)	101574	<a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>
Lead Testing:			
CPSC	ACLASS (ISO 17025, CPSC)	ADE-1420	<a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>
Soil, Dust, Paint ,Air	AIHA (ISO 17025, AIHA ELLAP and NLLAP)	101574	<a href="http://www.aihaaccreditedlabs.org">http://www.aihaaccreditedlabs.org</a>
Dietary Supplements	ACLASS (ISO 17025)	ADE-1420	<a href="http://www.aiclasscorp.com">http://www.aiclasscorp.com</a>

### 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:** 1233966

**Limits:** Historical/Performance

**Basis:** ALS Laboratory Group

**Preparation:** IH Metals, MCE Prep

**Batch:** IIPX/11511 (HBN: 98561)

**Prepared By:** Adam K. Taft

**Analysis:** IH Metals QC

**Batch:** IICP/7649 (HBN: 98567)

**Analyzed By:** Penny A. Foote

### Blank

<b>Blank:</b> 311788 <b>Analyzed:</b> 12/04/2012 14:05 <b>Units:</b> ug/sample				
Analyte	Result	MDL	RL	
Cadmium	ND	0.0225	0.075	
Lead	ND	0.375	1.25	

<b>LMB:</b> 311789 <b>Analyzed:</b> 12/04/2012 14:09 <b>Units:</b> ug/sample				
Analyte	Result	MDL	RL	
Cadmium	ND	0.0225	0.075	
Lead	ND	0.375	1.25	

<b>Blank:</b> 311833 <b>Analyzed:</b> 12/04/2012 16:05 <b>Units:</b> ug/sample				
Analyte	Result	MDL	RL	
Cadmium	ND	0.0225	0.075	
Lead	ND	0.375	1.25	

<b>LMB:</b> 311834 <b>Analyzed:</b> 12/04/2012 16:26 <b>Units:</b> 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

<b>LCS:</b> 311790 <b>Analyzed:</b> 12/04/2012 14:13 <b>Units:</b> ug/sample					<b>LCSD:</b> 311791 <b>Analyzed:</b> 12/04/2012 14:16				
Analyte	Result	Target	% Recovery	QC Limits	Result	RPD	QC Limits		
Cadmium	10.2	10	102	89.8 112.5	10.1	0.433	0 15		
Lead	99.1	100	99.1	88 115	99.5	0.337	0 15		

<b>LCS:</b> 311835 <b>Analyzed:</b> 12/04/2012 16:29 <b>Units:</b> ug/sample					<b>LCSD:</b> 311836 <b>Analyzed:</b> 12/04/2012 16:32				
Analyte	Result	Target	% Recovery	QC Limits	Result	RPD	QC Limits		
Cadmium	10.1	10	101	89.8 112.5	10.2	0.172	0 15		
Lead	98.5	100	98.5	88 115	98.7	0.248	0 15		





## Quality Control Sample Batch Report

### Analysis Information

**Workorder:** 1233966

**Limits:** Historical/Performance

**Basis:** ALS Laboratory Group

**Preparation:** IH Metals, MCE Prep

**Batch:** IIPX/11511 (HBN: 98561)

**Prepared By:** Adam K. Taft

**Analysis:** IH Metals QC

**Batch:** IICP/7649 (HBN: 98567)

**Analyzed By:** Penny A. Foote

### Comments

The MCE plus Backup Pad LMB 311834 was above the reporting limit for calcium (27.3 µg/sample), magnesium (4.21 µg/sample), sodium (107 µg/sample), and zinc (0.623 µg/sample) so the LCS 311835 and LCSD 311836 results have been media blank corrected for calcium, magnesium, sodium, and zinc with LMB 311834.

The silver recoveries MCE plus backup pad matrix LCS 311835 and LCSD 311836 were outside of current limits at 42.3% and 42.2%, respectively. The associated MCE only LCS 311790 and LCSD 311791 had silver recoveries within limits. Silver has been observed to fall out of solution when spiked on back-up pad matrix which may be the cause of the low silver recoveries.

### QC Data Approved and Reviewed by

<u>Penny A. Foote</u>	<u>Peter P. Steen</u>	<u>12/5/2012</u>
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



W

10494/1

Invoice Exide-

## Chain of Custody

1. ☐ REGULAR Status☒ RUSH Status Requested - ADDITIONAL CHARGE  
RESULTS REQUIRED BY 12.5.12

DATE

CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 12.3.12 Purchase Order No. 21252

4. Quote No. \_\_\_\_\_

3. Company Name Remediation Services, Inc.ALS Project Manager Paul PopeAddress PO Box 587

5. Sample Collection

Independence, KS 67301

Sampling Site: Exide FriscoPerson to Contact: Grant SherwoodIndustrial Process: Decontamination and DemoTelephone (620) 331-1200Date of Collection 12.3.12Fax Telephone (620) 331-6216Time Collected 7:00-17:00E-mail Address gsherwood@rsi-ks.comDate of Shipment 12.3.12

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.comSend Invoice to: strotter@rsi-ks.com Vanessa Coleman Exide-

## 7. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	EX DEMO 121203 UW 5261	37 um MCE	1182L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
	EX DEMO 121203 DW 0011	37 um MCE	1974L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
	EX DEMO 121203 DW 6071	37 um MCE	2052L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
	EX DEMO 121203 DW 6061	37 um MCE	2010L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>

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 GILLMANDate/Time 12.3.12Received by [Signature]Date/Time 12/4/12 9:35am

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 10, 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: **34-1234208**  
Client Project ID: 21252/Exide Frisco 120712 2  
Purchase Order: 21252  
Project Manager: Paul Pope

### Analytical Results

Sample ID: <b>EX DEMO 121205 DW 607</b>		Media: MCE Filter		Collected: 12/05/2012
Lab ID: 1234208001		Sampling Location: Exide Frisco		Received: 12/07/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 1982 L		Prepared: 12/07/2012 Analyzed: 12/07/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.053	<0.027	0.053	0.18
Lead	<b>(0.57)</b>	<b>(0.29)</b>	0.46	1.5

Sample ID: <b>EX DEMO 121205 DW 526</b>		Media: MCE Filter		Collected: 12/05/2012
Lab ID: 1234208002		Sampling Location: Exide Frisco		Received: 12/07/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 1973 L		Prepared: 12/07/2012 Analyzed: 12/07/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.053	<0.027	0.053	0.18
Lead	<0.46	<0.23	0.46	1.5

Sample ID: <b>EX DEMO 121205 DW 001</b>		Media: MCE Filter		Collected: 12/05/2012
Lab ID: 1234208003		Sampling Location: Exide Frisco		Received: 12/07/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 2041 L		Prepared: 12/07/2012 Analyzed: 12/07/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.053	<0.026	0.053	0.18
Lead	<0.46	<0.23	0.46	1.5

### Report Authorization

Method	Analyst	Peer Review
NIOSH 7300 Mod.	Peter P. Steen	Christopher R. Hansen

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Environmental 

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## ANALYTICAL REPORT

Workorder: **34-1234208**

Client Project ID: 21252/Exide Frisco 120712 2

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](mailto:alslt.lab@ALSGlobal.com)  
Web: [www.alssl.com](http://www.alssl.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.

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

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

### 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:** 1234208

**Limits:** Historical/Performance

**Basis:** ALS Laboratory Group

**Preparation:** IH Metals, MCE Prep

**Batch:** IIPX/11537 (HBN: 98827)

**Prepared By:** Adam K. Taft

**Analysis:** IH Metals QC

**Batch:** IICP/7671 (HBN: 98912)

**Analyzed By:** Peter P. Steen

## Blank

<b>Blank:</b> 312827 <b>Analyzed:</b> 12/07/2012 16:43 <b>Units:</b> ug/sample				
Analyte	Result	MDL	RL	
Cadmium	ND	0.0533	0.178	
Lead	ND	0.463	1.54	

<b>LMB:</b> 312828 <b>Analyzed:</b> 12/07/2012 16:46 <b>Units:</b> ug/sample				
Analyte	Result	MDL	RL	
Cadmium	ND	0.0533	0.178	
Lead	ND	0.463	1.54	

## Laboratory Control Sample - Laboratory Control Sample Duplicate

<b>LCS:</b> 312829 <b>Analyzed:</b> 12/07/2012 16:50  <b>Units:</b> ug/sample						<b>LCSD:</b> 312830 <b>Analyzed:</b> 12/07/2012 16:53				
<b>Analyte</b>	<b>Result</b>	<b>Target</b>	<b>% Recovery</b>	<b>QC Limits</b>		<b>Result</b>	<b>RPD</b>	<b>QC Limits</b>		
Cadmium	10.1	10	101	89.8	112.5	10.2	0.318	0	15	
Lead	103	100	103	88	115	104	0.676	0	15	

## QC Data Approved and Reviewed by

<u>Peter P. Steen</u> <b>Analyst</b>	<u>Christopher R. Hansen</u> <b>Peer Review</b>	<u>12/10/2012</u> <b>Date</b>
---	--	----------------------------------

## 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: 1234208			
Reviewer Name: Paul Pope				Prep Batch Number(s):			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>					
		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	<b>Sample and quality control (QC) identification</b>					
		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	<b>Test reports</b>					
		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	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		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	<b>Laboratory control samples (LCS):</b>					
		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	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		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	<b>Analytical duplicate data</b>					
		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	<b>Method quantitation limits (MQLs):</b>					
		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	<b>Other problems/anomalies</b>					
		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		

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Environmental Laboratory				Laboratory Name: 12/28/12			
Project Name: Exide, Frisco				Project Name: 1234208			
Reviewer Name: Paul Pope				Reviewer Name: Paul Pope			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
S1	OI	<b>Initial calibration (ICAL)</b>					
		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	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)</b>					
		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	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	<b>Raw data</b> (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	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?	X				
S9	I	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	<b>Method detection limit (MDL) studies</b>					
		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	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	<b>Demonstration of analyst competency (DOC)</b>					
		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	<b>Verification/validation documentation for methods</b> (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	<b>Laboratory standard operating procedures (SOPs):</b>					
		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: 1234208
Reviewer Name: Paul Pope	Prep Batch Number(s):
ER# <sup>5</sup>	Description





1234208

## Chain of Custody

1. ☐ REGULAR Status☒ RUSH Status Requested - ADDITIONAL CHARGE  
RESULTS REQUIRED BY 12.6.12

DATE

CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 12.5.12 Purchase Order No. 21252

4. Quote No. \_\_\_\_\_

3. Company Name Remediation Services, inc.ALS Project Manager Paul PopeAddress PO Box 587

## 5. Sample Collection

Independence, KS 67301Sampling Site: Exide FriscoPerson to Contact: Grant SherwoodIndustrial Process: Decontamination and DemoTelephone ( 620 ) 331-1200Date of Collection 12.5.12Fax Telephone (620) 331-6216Time Collected 7:00 - 17:00E-mail Address gsherwood@rsi-ks.comDate of Shipment 12.5.12

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.comSend 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 121205 DW 607	37 um MCE	1982L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
	EX DEMO 121205 DW 526	37 um MCE	1973L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
	EX DEMO 121205 DW 001	37 um MCE	2041L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>

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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 JOANNY GUMMDate/Time 12.5.12 15:05Received by Justin JasslerDate/Time 12-07-12 10:10

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 11, 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: **34-1234517**  
Client Project ID: 21252/Exide Frisco 121012  
Purchase Order: 21252  
Project Manager: Paul Pope

### Analytical Results

Sample ID: <b>EX DEMO 121207 DW 607</b>		Media: MCE Filter		Collected: 12/07/2012
Lab ID: 1234517001		Sampling Location: Exide Frisco		Received: 12/10/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 1985 L		Prepared: 12/10/2012 Analyzed: 12/11/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.025	<0.012	0.025	0.083
Lead	<0.38	<0.19	0.38	1.3

Sample ID: <b>EX DEMO 121207 DW 526</b>		Media: MCE Filter		Collected: 12/07/2012
Lab ID: 1234517002		Sampling Location: Exide Frisco		Received: 12/10/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 2031 L		Prepared: 12/10/2012 Analyzed: 12/11/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.025	<0.012	0.025	0.083
Lead	<0.38	<0.18	0.38	1.3

Sample ID: <b>EX DEMO 121207 DW 001</b>		Media: MCE Filter		Collected: 12/07/2012
Lab ID: 1234517003		Sampling Location: Exide Frisco		Received: 12/10/2012
Method: NIOSH 7300 Mod.		Sampling Parameter: Air Volume 1936 L		Prepared: 12/10/2012 Analyzed: 12/11/2012
Analyte	ug/sample	ug/m <sup>3</sup>	LOD (ug/sample)	RL (ug/sample)
Cadmium	<0.025	<0.013	0.025	0.083
Lead	<0.38	<0.19	0.38	1.3

### Comments

**Quality Control: NIOSH 7300 Mod. - (HBN: 98988)**

The MCE LMB 313104 was above the reporting limit for magnesium equivalent to 1.54 µg/sample so the LCS 313105 and LCSD 313106 results have been media blank corrected for magnesium with LMB 313104.

ADDRESS 960 West LeVoy Drive, Salt Lake City, Utah, USA 84123 | PHONE +1 801 266 7700 | FAX +1 801 268 9992  
ALS GROUP USA, CORP. Part of the ALS Laboratory Group A Campbell Brothers Limited Company

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## ANALYTICAL REPORT

Workorder: **34-1234517**

Client Project ID: 21252/Exide Frisco 121012

Purchase Order: 21252

Project Manager: Paul Pope

### Report Authorization

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

### Laboratory Contact Information

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

Phone: (801) 266-7700  
Email: [alslt.lab@ALSGlobal.com](mailto:alslt.lab@ALSGlobal.com)  
Web: [www.alssl.com](http://www.alssl.com)

### General Lab Comments

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

### 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:** 1234517

**Limits:** Historical/Performance

**Basis:** ALS Laboratory Group

**Preparation:** IH Metals, MCE Prep

**Batch:** IIPX/11541 (HBN: 98893)

**Prepared By:** Adam K. Taft

**Analysis:** IH Metals QC

**Batch:** IICP/7675 (HBN: 98988)

**Analyzed By:** Peter P. Steen

### Blank

<b>Blank:</b> 313103 <b>Analyzed:</b> 12/11/2012 08:51 <b>Units:</b> ug/sample				
Analyte	Result	MDL	RL	
Cadmium	ND	0.0248	0.0825	
Lead	ND	0.375	1.25	

<b>LMB:</b> 313104 <b>Analyzed:</b> 12/11/2012 08:54 <b>Units:</b> ug/sample				
Analyte	Result	MDL	RL	
Cadmium	ND	0.0248	0.0825	
Lead	ND	0.375	1.25	

### Laboratory Control Sample - Laboratory Control Sample Duplicate

<b>LCS:</b> 313105 <b>Analyzed:</b> 12/11/2012 08:58 <b>Units:</b> ug/sample					<b>LCSD:</b> 313106 <b>Analyzed:</b> 12/11/2012 09:01					
Analyte	Result	Target	% Recovery	QC Limits		Result	RPD	QC Limits		
Cadmium	10.3	10	103	89.8	112.5	10.4	0.587	0	15	
Lead	101	100	101	88	115	101	0.803	0	15	

### Comments

The MCE LMB 313104 was above the reporting limit for magnesium equivalent to 1.54 µg/sample so the LCS 313105 and LCSD 313106 results have been media blank corrected for magnesium with LMB 313104.

### QC Data Approved and Reviewed by

Peter P. Steen	Penny A. Foote	12/11/2012
<b>Analyst</b>	<b>Peer Review</b>	<b>Date</b>

### 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: 1234517			
Reviewer Name: Paul Pope				Prep Batch Number(s):			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
R1	OI	<b>Chain-of-custody (C-O-C)</b>					
		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	<b>Sample and quality control (QC) identification</b>					
		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	<b>Test reports</b>					
		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	<b>Surrogate recovery data</b>					
		Were surrogates added prior to extraction?			X		
		Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	<b>Test reports/summary forms for blank samples</b>					
		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	<b>Laboratory control samples (LCS):</b>					
		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	<b>Matrix spike (MS) and matrix spike duplicate (MSD) data</b>					
		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	<b>Analytical duplicate data</b>					
		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	<b>Method quantitation limits (MQLs):</b>					
		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	<b>Other problems/anomalies</b>					
		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		

Laboratory Review Checklist: Reportable Data							
Laboratory Name: ALS Environmental Laboratory				Laboratory Name: 12/28/12			
Project Name: Exide, Frisco				Project Name: 1234517			
Reviewer Name: Paul Pope				Reviewer Name: Paul Pope			
# <sup>1</sup>	A <sup>2</sup>	Description	Yes	No	NA <sup>3</sup>	NR <sup>4</sup>	ER# <sup>5</sup>
S1	OI	<b>Initial calibration (ICAL)</b>					
		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	<b>Initial and continuing calibration verification (ICCV and CCV) and continuing calibration blank (CCB)</b>					
		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	<b>Mass spectral tuning:</b>					
		Was the appropriate compound for the method used for tuning?			X		
		Were ion abundance data within the method-required QC limits?			X		
S4	O	<b>Internal standards (IS):</b>					
		Were IS area counts and retention times within the method-required QC limits?			X		
S5	OI	<b>Raw data</b> (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	<b>Dual column confirmation</b>					
		Did dual column confirmation results meet the method-required QC?			X		
S7	O	<b>Tentatively identified compounds (TICs):</b>					
		If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	<b>Interference Check Sample (ICS) results:</b>					
		Were percent recoveries within method QC limits?	X				
S9	I	<b>Serial dilutions, post digestion spikes, and method of standard additions</b>					
		Were percent differences, recoveries, and the linearity within the QC limits specified in the method?			X		
S10	OI	<b>Method detection limit (MDL) studies</b>					
		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	<b>Proficiency test reports:</b>					
		Was the laboratory's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	<b>Standards documentation</b>					
		Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	<b>Compound/analyte identification procedures</b>					
		Are the procedures for compound/analyte identification documented?	X				
S14	OI	<b>Demonstration of analyst competency (DOC)</b>					
		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	<b>Verification/validation documentation for methods</b> (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	<b>Laboratory standard operating procedures (SOPs):</b>					
		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: 1234517
Reviewer Name: Paul Pope	Prep Batch Number(s):
ER# <sup>5</sup>	Description



1234517

## Chain of Custody

1. ☐ REGULAR Status☒ RUSH Status Requested - ADDITIONAL CHARGE

RESULTS REQUIRED BY 12.10.12

DATE

CONTACT ALS SALT LAKE PRIOR TO SENDING SAMPLES

2. Date 12.7.12 Purchase Order No. 21252

4. Quote No.

3. Company Name Remediation Services, Inc.

ALS Project Manager Paul Pope

Address PO Box 587

## 5. Sample Collection

Independence, KS 67301

Sampling Site: Exide Frisco

Person to Contact: Grant Sherwood

Industrial Process: Decontamination and Demo

Telephone (620) 331-1200

Date of Collection 12.7.12

Fax Telephone (620) 331-6216

Time Collected 7:00 - 17:00

E-mail Address gsherwood@rsi-ks.com

Date of Shipment 12.10.12

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

## 7. REQUEST FOR ANALYSES

Laboratory Use Only	Client Sample Number	Matrix*	Sample Volume	ANALYSES REQUESTED - Use method number if known	Units**
	EX DEMO 121207 DW 6071	37 um MCE	1905L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
	EX DEMO 121207 DW 5261	37 um MCE	2031L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
	EX DEMO 121207 DW 5261	37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
	EX DEMO 121207 DW 5071	37 um MCE	1936L	NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>
		37 um MCE		NIOSH 7303 - Lead and Cadmium	ug/m <sup>3</sup>

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 12.7.12 19:00

Received by

Date/Time 12-10-12 9:45

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



**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 <sup>3</sup> )	E-BAM F5001 30-min avg (mg/m <sup>3</sup> )	E-BAM G4526 30-min avg (mg/m <sup>3</sup> )	E-BAM G4607 30-min avg (mg/m <sup>3</sup> )	Wind Direction (30-min avg from N)	Wind Speed (30-min avg mph)
		Upwind	Downwind	Downwind	Downwind		
12/8/2012	07:00-07:29		-0.003	0.041	0.027		
	07:30-07:59						
	08:00-08:29						
	08:30-08:59						
	09:00-09:29						
	09:30-09:59	0.075	0.099	-0.005	0.048	57	3.9
	10:00-10:29					113	2.6
	10:30-10:59					94	3.2
	11:00-11:29					125	3.9
	11:30-11:59					139	4.1
	12:00-12:29			0.023		140	4.7
	12:30-12:59					143	5.3
	13:00-13:29					164	5.4
	13:30-13:59			0.036		152	4.4
	14:00-14:29			0.041		139	4.5
	14:30-14:59					155	6.7
	15:00-15:29					163	7.2
	15:30-15:59				0.038	160	8.0
	16:00-16:29				0.035	155	7.2
	16:30-16:59					149	5.8
	17:00-17:29					100	4.2
	17:30-17:59					97	3.9

**Notes:**

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