



Date of Report: 12/29/2017

Tomer Schetrit

Terraphase Engineering, Incorporated  
1404 Franklin Street, Suite 600  
Oakland, CA 94612

Client Project: C005.007.056 Willard Middle School  
BCL Project: Lead Sampling K-12 Schools  
BCL Work Order: 1735747  
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 12/13/2017. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1000689402

Sincerely,

Contact Person: Felicia Johnson  
Client Service Rep

Stuart Buttram  
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Submission #: 17-35747

**SHIPPING INFORMATION**  
 Fed Ex  UPS  Ontrac  Hand Delivery   
 BC Lab Field Service  Other  (Specify) \_\_\_\_\_

**SHIPPING CONTAINER**  
 Ice Chest  None  Box   
 Other  (Specify) \_\_\_\_\_

**FREE LIQUID**  
 YES  NO   
 W / S \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: 1111

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received  YES  NO  
 Emissivity: 0.97 Container: FE Thermometer ID: 208 Date/Time: 12/13/2000  
 Temperature: (A) 0.1 °C / (C) 0.5 °C Analyst Init: BSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES 4oz / 8oz / 16oz PE UNPRES 2oz Cr <sup>4+</sup>	A	A	A	A	A					
QT INORGANIC CHEMICAL METALS INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 503/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.I										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: KJA Date/Time: 12-14-17 0900 Rev 21 05/23/2016

A = Actual / C = Corrected

ES:\WPDoc\Word\PericedLAR\_docs\FORMS\SASAWIECrev 21



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**Reported:** 12/29/2017 17:10  
**Project:** Lead Sampling K-12 Schools  
**Project Number:** C005.007.056 Willard Middle School  
**Project Manager:** Tomer Schetrit

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1735747-01	<b>COC Number:</b>	---	<b>Receive Date:</b>	12/13/2017 22:00
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	12/13/2017 04:36
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	C005-007-056-A 0110005-BJE-A	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	Jon Marshak	<b>Sample Type:</b>	Drinking Water
1735747-02	<b>COC Number:</b>	---	<b>Receive Date:</b>	12/13/2017 22:00
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	12/13/2017 04:41
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	C005-007-056-B 0110005-BJE-B	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	Jon Marshak	<b>Sample Type:</b>	Drinking Water
1735747-03	<b>COC Number:</b>	---	<b>Receive Date:</b>	12/13/2017 22:00
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	12/13/2017 04:48
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	C005-007-056-C 0110005-BJE-C	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	Jon Marshak	<b>Sample Type:</b>	Drinking Water
1735747-04	<b>COC Number:</b>	---	<b>Receive Date:</b>	12/13/2017 22:00
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	12/13/2017 04:55
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	C005-007-056-D 0110005-BJE-D	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	Jon Marshak	<b>Sample Type:</b>	Drinking Water
1735747-05	<b>COC Number:</b>	---	<b>Receive Date:</b>	12/13/2017 22:00
	<b>Project Number:</b>	---	<b>Sampling Date:</b>	12/13/2017 05:00
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	C005-007-056-E 0110005-BJE-E	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	Jon Marshak	<b>Sample Type:</b>	Drinking Water

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**Reported:** 12/29/2017 17:10  
**Project:** Lead Sampling K-12 Schools  
**Project Number:** C005.007.056 Willard Middle School  
**Project Manager:** Tomer Schetrit

### Metals Analysis

<b>BCL Sample ID:</b> 1735747-01	<b>Client Sample Name:</b> C005-007-056-A 0110005-BJE-A, 12/13/2017 4:36:00AM, Jon Marshak
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Lead	0.22	ug/L	1.0	0.10	EPA-200.8	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	12/18/17 12:00	12/18/17 18:39	MH1	PE-EL3	1	B[L1845

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### Metals Analysis

<b>BCL Sample ID:</b> 1735747-02	<b>Client Sample Name:</b> C005-007-056-B 0110005-BJE-B, 12/13/2017 4:41:00AM, Jon Marshak
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Lead	17	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	12/18/17 12:00	12/18/17 18:43	MH1	PE-EL3	1	B[L1845

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### Metals Analysis

<b>BCL Sample ID:</b> 1735747-03	<b>Client Sample Name:</b> C005-007-056-C 0110005-BJE-C, 12/13/2017 4:48:00AM, Jon Marshak
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Lead	0.15	ug/L	1.0	0.10	EPA-200.8	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	12/18/17 12:00	12/18/17 18:46	MH1	PE-EL3	1	B[L1845

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### Metals Analysis

<b>BCL Sample ID:</b> 1735747-04	<b>Client Sample Name:</b> C005-007-056-D 0110005-BJE-D, 12/13/2017 4:55:00AM, Jon Marshak
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Lead	2.0	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	12/18/17 12:00	12/18/17 18:50	MH1	PE-EL3	1	B[L1845

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### Metals Analysis

<b>BCL Sample ID:</b> 1735747-05	<b>Client Sample Name:</b> C005-007-056-E 0110005-BJE-E, 12/13/2017 5:00:00AM, Jon Marshak
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Lead	0.71	ug/L	1.0	0.10	EPA-200.8	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	12/18/17 12:00	12/18/17 18:53	MH1	PE-EL3	1	B[L1845

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## Metals Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B[L1845</b>						
Total Recoverable Lead	B[L1845-BLK1	ND	ug/L	1.0	0.10	

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### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B[L1845</b>										
Total Recoverable Lead	B[L1845-BS1	LCS	101.05	100.00	ug/L	101		85	115	

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### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B[L1845</b>		Used client sample: Y - Description: C005-007-048-A 0110005-BJF-A, 12/13/2017 05:16								
Total Recoverable Lead	DUP	1735746-01	0.14300	0.15100		ug/L	5.4		20	J
	MS	1735746-01	0.14300	101.80	102.04	ug/L		99.6	70 - 130	
	MSD	1735746-01	0.14300	99.865	102.04	ug/L	1.9	97.7	20 70 - 130	

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**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit