

August 18, 2017

Mr. Rafael Torres
PARS Environmental
500 Horizon Drive
Trenton, NJ 08691

Certificate of Analysis

Project Name:	School Drinking Water Lead Testing	Workorder:	2254156
Purchase Order:		Workorder ID:	HHS-Hillsborough HS -Remediati

Dear Mr. Torres:

Enclosed are the analytical results for samples received by the laboratory on Monday, August 14, 2017.

The ALS Environmental laboratory in Middletown, Pennsylvania is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact Mrs. Vicki A. Forney (Project Coordinator) at (717) 944-5541.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the ALS website at www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads.

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ALS Spring City: 10 Riverside Drive, Spring City, PA 19475 610-948-4903

This page is included as part of the Analytical Report and must be retained as a permanent record thereof.



Mrs. Vicki A. Forney
Project Coordinator

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SAMPLE SUMMARY

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID	Sample ID	Matrix	Date Collected	Date Received	Collected By
2254156001	HHS-Field Blank	Drinking Water	8/13/2017 00:00	8/14/2017 18:45	Collected by Client
2254156002	HHS-1-H127B-ART-CF1-R	Drinking Water	8/13/2017 06:08	8/14/2017 18:45	Collected by Client
2254156003	HHS-2-H607-CF8-R	Drinking Water	8/13/2017 06:17	8/14/2017 18:45	Collected by Client
2254156004	HHS-2-H610-CF1-R	Drinking Water	8/13/2017 06:22	8/14/2017 18:45	Collected by Client
2254156005	HHS-2-H612-CF5-R	Drinking Water	8/13/2017 06:25	8/14/2017 18:45	Collected by Client
2254156006	HHS-2-H624-CF1-R	Drinking Water	8/13/2017 06:31	8/14/2017 18:45	Collected by Client
2254156007	HHS-2-H627-CF1-R	Drinking Water	8/13/2017 06:33	8/14/2017 18:45	Collected by Client
2254156008	HHS-2-H804-CF7-R	Drinking Water	8/13/2017 06:39	8/14/2017 18:45	Collected by Client
2254156009	HHS-2-H804-CF8-R	Drinking Water	8/13/2017 06:40	8/14/2017 18:45	Collected by Client
2254156010	HHS-2-H804-CF9-R	Drinking Water	8/13/2017 06:42	8/14/2017 18:45	Collected by Client

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SAMPLE SUMMARY

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Notes

- Samples collected by ALS personnel are done so in accordance with the procedures set forth in the ALS Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.

Standard Acronyms/Flags

J	Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte
U	Indicates that the analyte was Not Detected (ND)
N	Indicates presumptive evidence of the presence of a compound
MDL	Method Detection Limit
PQL	Practical Quantitation Limit
RDL	Reporting Detection Limit
ND	Not Detected - indicates that the analyte was Not Detected at the RDL
Cntr	Analysis was performed using this container
RegLmt	Regulatory Limit
LCS	Laboratory Control Sample
MS	Matrix Spike
MSD	Matrix Spike Duplicate
DUP	Sample Duplicate
%Rec	Percent Recovery
RPD	Relative Percent Difference
LOD	DoD Limit of Detection
LOQ	DoD Limit of Quantitation
DL	DoD Detection Limit
I	Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL)
(S)	Surrogate Compound
NC	Not Calculated
*	Result outside of QC limits

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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156001** Date Collected: 8/13/2017 00:00 Matrix: Drinking Water
 Sample ID: **HHS-Field Blank** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	ND		ug/L	2.0	EPA 200.8	8/17/17 14:19 MO	8/17/17 16:00 MO	A1



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 Project Coordinator

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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156002** Date Collected: 8/13/2017 06:08 Matrix: Drinking Water
 Sample ID: **HHS-1-H127B-ART-CF1-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	37.3		ug/L	1.0	EPA 200.8	8/18/17 00:15	LXC	8/18/17 07:42	ZMC	A1



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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156003** Date Collected: 8/13/2017 06:17 Matrix: Drinking Water
 Sample ID: **HHS-2-H607-CF8-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	8.9		ug/L	1.0	EPA 200.8	8/18/17 00:15	LXC	8/18/17 07:46	ZMC	A1



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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156004** Date Collected: 8/13/2017 06:22 Matrix: Drinking Water
 Sample ID: **HHS-2-H610-CF1-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	18.8		ug/L	2.0	EPA 200.8	8/17/17 14:19 MO	8/17/17 16:03 MO	A1



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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156005** Date Collected: 8/13/2017 06:25 Matrix: Drinking Water
 Sample ID: **HHS-2-H612-CF5-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	181		ug/L	1.0	EPA 200.8	8/18/17 00:15	LXC	8/18/17 07:50	ZMC	A1



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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156006** Date Collected: 8/13/2017 06:31 Matrix: Drinking Water
 Sample ID: **HHS-2-H624-CF1-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	4.1		ug/L	2.0	EPA 200.8	8/17/17 14:19	MO	8/17/17 16:05	MO	A1



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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156007** Date Collected: 8/13/2017 06:33 Matrix: Drinking Water
 Sample ID: **HHS-2-H627-CF1-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared By	Analyzed By	Cntr
METALS								
Lead, Total	45.7		ug/L	2.0	EPA 200.8	8/17/17 14:19 MO	8/17/17 16:08 MO	A1



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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156008** Date Collected: 8/13/2017 06:39 Matrix: Drinking Water
 Sample ID: **HHS-2-H804-CF7-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	69.0		ug/L	1.0	EPA 200.8	8/18/17 00:15	LXC	8/18/17 07:54	ZMC	A1



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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156009** Date Collected: 8/13/2017 06:40 Matrix: Drinking Water
 Sample ID: **HHS-2-H804-CF8-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	72.4		ug/L	1.0	EPA 200.8	8/18/17 00:15	LXC	8/18/17 07:58	ZMC	A1



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ANALYTICAL RESULTS

Workorder: 2254156 HHS-Hillsborough HS -Remediati

Lab ID: **2254156010** Date Collected: 8/13/2017 06:42 Matrix: Drinking Water
 Sample ID: **HHS-2-H804-CF9-R** Date Received: 8/14/2017 18:45

Parameters	Results	Flag	Units	RDL	Method	Prepared	By	Analyzed	By	Cntr
METALS										
Lead, Total	890		ug/L	1.0	EPA 200.8	8/18/17 00:15	LXC	8/18/17 08:02	ZMC	A1



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34 Dogwood Lane
Middletown, PA 17057
P. 717-944-5541
F. 717-944-1430

Environmental

Client Name: PARS Environmental

Address: 500 Horizon Drive, Suite 540

Contact: Firoz Jan

Phone#: 609-890-7277

Project Name#: HHS -Hillsborough High School-Remediation

Bill To: Firoz Jan, PARS Environmental

TAT Normal-Standard TAT is 10-12 business days.
 Rush-Subject to ALS approval and surcharges.
 Date Required: 8/17/17-72 hrs Approved By: F.J
 Email? Y Fjan@parsenviro.com, and
 Fax? Y No: rtorres@parsenviro.com

Sample Description/Location
(as it will appear on the lab report)

See Attached

G or C

DW

All

EPA 200.8 (Lead)

Enter Number of Containers Per Sample or Field Results Below.

ANALYSES/METHOD REQUESTED

Receipt Information (Completed by Client)

Cooler Temp: 22 Therm ID: 309 Initial *[Signature]*

No. of Coolers: Y N

Custody Seals Present? (if present) Seals Intact?

Received on Ice?

COC Labels Complete/Accurate?

Cont. In Good Cond.?

Correct Containers?

Correct Sample Volumes?

Correct Preservation?

Headspace/Volatiles?

Courier Tracking #: _____

Sample/COC Comments _____

COC #: _____
ALS Quote #: _____



Project Comments:	LOGGED BY (signature):		REVIEWED BY (signature):		Date		Received By / Company Name		Date		Time	
	Relinquished By / Company Name	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature	Signature
1 Freyhan/ PARS Env	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	8/14/17	8/17	PARS Env	<i>[Signature]</i>	8/14	8/17	1730	1730
3	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	8/17	8/17	<i>[Signature]</i>	<i>[Signature]</i>	8/14	8/17	1545	1545
5	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>	8/17	8/17	<i>[Signature]</i>	<i>[Signature]</i>	8/14	8/17	1845	1845
7												
9												

ALS Field Services: Pickup Labor
 Composite Sampling Rental Equipment
 Other: _____

Standard CLP-like USACE

Deliverables: USACE Navy State Samples Collected In: NY NJ PA NC

Reportable to PADEP? Yes No

PWSID # _____

EDDS: Format Type: _____

Sample #	Sample ID	Sample Time	Comments
0	FIELD Blank		
1	HHS-1-H127B-ART-CF1-R	6:08	
		6:09	
2	HHS-2-H607-CF8-R	6:17	
3	HHS-2-H610-CF1-R	6:22	
4	HHS-2-H612-CF5-R	6:25	

Signature of Sampler:
Freya

Sample ID Guide:
Bldg ID - Flr - Rm - Direction - Type (- Faucet #)

Sample #	Sample ID	Sample Time	Comments
5	HHS-2-H624-CF1-R	6:31	
6	HHS-2-H627-CF1-R	6:33	
7	HHS-2-H804-CF7-R	6:39	
8	HHS-2-H804-CF8-R	6:40	

Signature of Sampler:

Tracy Lee

Sample ID Guide:

Bldg ID - Flr - Rm - Direction - Type (- Faucet #)

