Appendix P

Laboratory Analytical Data

Orange Coast Analytical, Inc.
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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20512
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	1/8/2016
Date Reported:	1/12/2016
Chain of Custody Received:	☑
Analytical Method:	8081A, 6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
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100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
D3-0.5	20512-001	1/8/2016	1/8/2016	Soil
D3-1.0	20512-002	1/8/2016	1/8/2016	Soil
D4-0.5	20512-003	1/8/2016	1/8/2016	Soil
D4-1.0	20512-004	1/8/2016	1/8/2016	Soil
D4-1.5	20512-005	1/8/2016	1/8/2016	Soil
D4-2.0	20512-006	1/8/2016	1/8/2016	Soil
D4-2.5	20512-007	1/8/2016	1/8/2016	Soil
D4-3.0	20512-008	1/8/2016	1/8/2016	Soil
E4-0.5	20512-009	1/8/2016	1/8/2016	Soil
E4-1.0	20512-010	1/8/2016	1/8/2016	Soil
C3-0.5D	20512-011	1/8/2016	1/8/2016	Soil
C4-2.5	20512-012	1/8/2016	1/8/2016	Soil
C4-3.0	20512-013	1/8/2016	1/8/2016	Soil
D2-0.5	20512-014	1/8/2016	1/8/2016	Soil
D2-1.0	20512-015	1/8/2016	1/8/2016	Soil
D2-1.5	20512-016	1/8/2016	1/8/2016	Soil
D2-2.0	20512-017	1/8/2016	1/8/2016	Soil
C2-1.5	20512-018	1/8/2016	1/8/2016	Soil
C2-2.0	20512-019	1/8/2016	1/8/2016	Soil
C2-2.5	20512-020	1/8/2016	1/8/2016	Soil
C2-3.0	20512-021	1/8/2016	1/8/2016	Soil
C3-0.5	20512-022	1/8/2016	1/8/2016	Soil
C3-1.0	20512-023	1/8/2016	1/8/2016	Soil
C3-1.5	20512-024	1/8/2016	1/8/2016	Soil
C3-2.0	20512-025	1/8/2016	1/8/2016	Soil
C3-2.5	20512-026	1/8/2016	1/8/2016	Soil
C3-3.0	20512-027	1/8/2016	1/8/2016	Soil
C4-0.5	20512-028	1/8/2016	1/8/2016	Soil
C4-1.0	20512-029	1/8/2016	1/8/2016	Soil
C4-1.5	20512-030	1/8/2016	1/8/2016	Soil
C4-2.0	20512-031	1/8/2016	1/8/2016	Soil

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Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4-0.5	20512-032	1/8/2016	1/8/2016	Soil
B4-1.0	20512-033	1/8/2016	1/8/2016	Soil
B4-1.5	20512-034	1/8/2016	1/8/2016	Soil
B4-2.0	20512-035	1/8/2016	1/8/2016	Soil
B4-2.5	20512-036	1/8/2016	1/8/2016	Soil
B4-3.0	20512-037	1/8/2016	1/8/2016	Soil
C2-0.5	20512-038	1/8/2016	1/8/2016	Soil
C2-1.0	20512-039	1/8/2016	1/8/2016	Soil
B2-0.5	20512-040	1/8/2016	1/8/2016	Soil
B2-0.5D	20512-041	1/8/2016	1/8/2016	Soil
B3-0.5	20512-042	1/8/2016	1/8/2016	Soil
B3-1.0	20512-043	1/8/2016	1/8/2016	Soil
B3-1.5	20512-044	1/8/2016	1/8/2016	Soil
B3-2.0	20512-045	1/8/2016	1/8/2016	Soil
B3-2.5	20512-046	1/8/2016	1/8/2016	Soil
B3-3.0	20512-047	1/8/2016	1/8/2016	Soil
A3-1.5	20512-048	1/8/2016	1/8/2016	Soil
A3-2.0	20512-049	1/8/2016	1/8/2016	Soil
A3-2.5	20512-050	1/8/2016	1/8/2016	Soil
A3-3.0	20512-051	1/8/2016	1/8/2016	Soil
A4-0.5	20512-052	1/8/2016	1/8/2016	Soil
A4-1.0	20512-053	1/8/2016	1/8/2016	Soil
A4-1.5	20512-054	1/8/2016	1/8/2016	Soil
A4-2.0	20512-055	1/8/2016	1/8/2016	Soil
A4-2.5	20512-056	1/8/2016	1/8/2016	Soil
A4-3.0	20512-057	1/8/2016	1/8/2016	Soil
A2-0.5	20512-058	1/8/2016	1/8/2016	Soil
A2-1.0	20512-059	1/8/2016	1/8/2016	Soil
A2-1.5	20512-060	1/8/2016	1/8/2016	Soil
A2-2.0	20512-061	1/8/2016	1/8/2016	Soil
A3-0.5	20512-062	1/8/2016	1/8/2016	Soil

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Lab Reference #: PEI 20512
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Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
A3-1.0	20512-063	1/8/2016	1/8/2016	Soil
AB2-0.5 (composite 58,40)	20512-064	1/8/2016		Soil
AB2-0.5	20512-065	1/8/2016		Soil
CD2-0.5 (composite 38,14)	20512-066	1/8/2016		Soil
CD2-2.0 (composite19,17)	20512-067	1/8/2016		Soil
AB34-0.5 (composite 62,52,42,32)	20512-068	1/8/2016		Soil
AB34-0.5D (composite 62,52,42,32)	20512-069	1/8/2016		Soil
AB34-2.0(composite 49,45,35)	20512-070	1/8/2016		Soil
CD34-0.5 (composite 22,28,1,3)	20512-071	1/8/2016		Soil
CD34-2.0 (composite 25,31,6)	20512-072	1/8/2016		Soil

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Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
E4-0.5	20512-009	1/8/2016	1/8/2016	1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	76

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
AB2-0.5 (composite 58,40)	20512-064	1/8/2016		1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	66

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CD2-0.5 (composite 38,14)	20512-066	1/8/2016		1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	74

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CD2-2.0 (composite19,17)	20512-067	1/8/2016		1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	140

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
AB34-0.5 (composite 62,52,42,32)	20512-068	1/8/2016		1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	65

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
AB34-0.5D (composite 62,52,42,32)	20512-069	1/8/2016		1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	17
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	55

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Pasadena, CA, 91124

Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
AB34-2.0(composite 49,45,35)	20512-070	1/8/2016		1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	67

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CD34-0.5 (composite 22,28,1,3)	20512-071	1/8/2016		1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	75

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: PEI 20512
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Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
CD34-2.0 (composite 25,31,6)	20512-072	1/8/2016		1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	62

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBVU0109161			1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	91

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

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Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
D3-0.5	20512-001	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	5.3	mg/kg	01/11/16	01/11/16	--	1
Lead	6010B	110	mg/kg	01/11/16	01/11/16	--	1

D4-0.5	20512-003	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	9.4	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	40	mg/kg	01/11/16	01/12/16	--	1

D4-2.0	20512-006	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	4.7	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	13	mg/kg	01/11/16	01/12/16	--	1

E4-0.5	20512-009	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.3	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	38	mg/kg	01/11/16	01/12/16	--	1

C3-0.5D	20512-011	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	5.6	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	27	mg/kg	01/11/16	01/12/16	--	1

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
D2-0.5	20512-014	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	4.6	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	46	mg/kg	01/11/16	01/12/16	--	1

D2-2.0	20512-017	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	5.7	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	28	mg/kg	01/11/16	01/12/16	--	1

C2-2.0	20512-019	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.3	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	30	mg/kg	01/11/16	01/12/16	--	1

C3-0.5	20512-022	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.1	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	76	mg/kg	01/11/16	01/12/16	--	1

C3-2.0	20512-025	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.9	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	28	mg/kg	01/11/16	01/12/16	--	1

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4-0.5	20512-028	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	7.2	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	40	mg/kg	01/11/16	01/12/16	--	1

C4-2.0	20512-031	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	7.7	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	83	mg/kg	01/11/16	01/12/16	--	1

B4-0.5	20512-032	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	23	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	14	mg/kg	01/11/16	01/12/16	--	1

B4-2.0	20512-035	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.0	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	18	mg/kg	01/11/16	01/12/16	--	1

C2-0.5	20512-038	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	4.8	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	39	mg/kg	01/11/16	01/12/16	--	1

Ms. Carrie Crozier
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Pasadena, CA, 91124

Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B2-0.5	20512-040	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.1	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	77	mg/kg	01/11/16	01/12/16	--	1

B2-0.5D	20512-041	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	5.0	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	20	mg/kg	01/11/16	01/12/16	--	1

B3-0.5	20512-042	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	5.0	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	35	mg/kg	01/11/16	01/12/16	--	1

B3-2.0	20512-045	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	5.8	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	9.7	mg/kg	01/11/16	01/12/16	--	1

A3-2.0	20512-049	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.9	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	39	mg/kg	01/11/16	01/12/16	--	1

Ms. Carrie Crozier
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100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
A4-0.5	20512-052	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	11	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	8.6	mg/kg	01/11/16	01/12/16	--	1

A4-2.0	20512-055	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.2	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	4.7	mg/kg	01/11/16	01/12/16	--	1

A2-0.5	20512-058	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	8.3	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	24	mg/kg	01/11/16	01/12/16	--	1

A3-0.5	20512-062	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	7.3	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	61	mg/kg	01/11/16	01/12/16	--	1

Method Blank					Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0111161	Arsenic	6010B	<0.50	mg/kg	01/11/16	01/11/16	--	1
MBSG0111161	Lead	6010B	<0.50	mg/kg	01/11/16	01/11/16	--	1

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
Method Blank				Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0111163	Arsenic	6010B	<0.50	mg/kg	01/11/16	01/11/16	--	1
MBSG0111163	Lead	6010B	<0.50	mg/kg	01/11/16	01/11/16	--	1

QA/QC Report
for
Organochlorinated Pesticides (EPA 8081A)

Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction: 1/9/2016
Date of Analysis: 1/11/2016
Dup Date of Analysis: 1/11/2016
Laboratory Sample #: 20512-067
MS/MSD Qualifiers: M2, R2,
Reference #: PEI 20512

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Gamma-BHC	0.00	20.0	0.0100	0.0800	0	0	156	34-130	31	☑
Heptachlor	0.00	20.0	1.80	3.50	9	17	64	27-138	31	☑
Aldrin	0.00	20.0	2.90	4.20	15	21	37	32-127	31	☑
Dieldrin	0.00	50.0	0.00	0.0200	0	0	200	32-144	30	☑
Endrin	0.00	50.0	0.310	0.120	1	0	88	30-154	30	☑
DDT	0.00	50.0	0.490	3.30	1	7	148	33-153	29	☑

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Decachlorobiphenyl	45	46	☐

LCS	LCSD	Qual
110	87	☐

ACP % RC
35-158

Laboratory Control Sample

Date of Extraction: 1/9/2016
Date of Analysis: 1/11/2016
Dup Date of Analysis: 1/11/2016
Laboratory Sample #: VU0109161
LCS Qualifiers: R2,

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Gamma-BHC	20.0	21.0	16.0	105	80	27	42-130	27	☐
Heptachlor	20.0	20.0	16.0	100	80	22	38-132	27	☐
Aldrin	20.0	20.0	15.0	100	75	29	43-130	27	☑
Dieldrin	50.0	49.0	41.0	98	82	18	44-130	24	☐
Endrin	50.0	57.0	45.0	114	90	24	45-136	25	☐
DDT	50.0	57.0	46.0	114	92	21	45-137	24	☐

QA/QC Report
for
Metals

Reference #: PEI 20512 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6010B**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Arsenic	1/11/2016	1/11/2016	1/11/2016	20507-078	8.00	20.0	26.2	26.2	91	91	0	75-125	20	--
Lead	1/11/2016	1/11/2016	1/11/2016	20507-078	22.0	20.0	37.4	31.4	77	47	17	75-125	20	M3,
Arsenic	1/11/2016	1/12/2016	1/12/2016	20512-011	5.60	20.0	26.0	25.4	102	99	2	75-125	20	--
Lead	1/11/2016	1/12/2016	1/12/2016	20512-011	27.0	20.0	48.4	46.6	107	98	4	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Arsenic	1/11/2016	1/11/2016	1/11/2016	SG0111161	20.0	19.3	19.3	96	96	0	80-120	20	--
Lead	1/11/2016	1/11/2016	1/11/2016	SG0111161	20.0	20.7	20.4	104	102	1	80-120	20	--
Arsenic	1/11/2016	1/11/2016	1/11/2016	SG0111163	20.0	19.2	19.3	96	96	1	80-120	20	--
Lead	1/11/2016	1/11/2016	1/11/2016	SG0111163	20.0	20.7	20.6	104	103	0	80-120	20	--

Data Qualifier Definitions

Qualifier

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable.

20512-067	8081A	Aldrin	MS/MSD
20512-067	8081A	DDT	MS/MSD
20512-067	8081A	Dieldrin	MS/MSD
20512-067	8081A	Endrin	MS/MSD
20512-067	8081A	Gamma-BHC	MS/MSD
20512-067	8081A	Heptachlor	MS/MSD

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

20507-078	6010B	Lead	MSD

R2 = RPD/RSD exceeded the laboratory acceptance limit.

20512-067	8081A	Aldrin	MS/MSD
20512-067	8081A	DDT	MS/MSD
20512-067	8081A	Dieldrin	MS/MSD
20512-067	8081A	Endrin	MS/MSD
20512-067	8081A	Gamma-BHC	MS/MSD
20512-067	8081A	Heptachlor	MS/MSD
VU0109161	8081A	Aldrin	LCS/LCSD

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 1 of

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
1	D3-0.5	1	01/08/16		SS	X	X	X						Composite OCP
2	D3-1.0	1	01/08/16		SS									Hold
	~~D3-1.5~~	~~1~~	~~01/08/16~~		~~SS~~									
	~~D3-2.0~~	~~1~~	~~01/08/16~~		~~SS~~									
	~~D3-2.5~~	~~1~~	~~01/08/16~~		~~SS~~									
	~~D3-3.0~~	~~1~~	~~01/08/16~~		~~SS~~									
3	D4-0.5	1	01/08/16	1140	SS	X	X	X						Composite OCP
4	D4-1.0	1	01/08/16	1144	SS									Hold
5	D4-1.5	1	01/08/16	1146	SS									Hold
6	D4-2.0	1	01/08/16	1150	SS	X	X	X						Composite OCP
7	D4-2.5	1	01/08/16	1153	SS									Hold
8	D4-3.0	1	01/08/16	1158	SS									Hold
9	E4-0.5	1	01/08/16	1349	SS	X	X	X						Composite OCPs
10	E4-1.0	1	01/08/16		SS									Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20912
Page 2 of

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~E4-1.5~~	~~1~~	~~01/08/16~~		SS										
~~E4-2.0~~	~~1~~	~~01/08/16~~		SS										
~~E4-2.5~~	~~1~~	~~01/08/16~~		SS										
~~E4-3.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-0.5D~~	~~1~~	~~01/08/16~~		SS										
~~B2-2.0D~~	~~1~~	~~01/08/16~~		SS										
C3-0.5D	1	01/08/16		SS	X	X	X							
~~E4-2.0D~~	~~1~~	~~01/08/16~~		SS										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 15:07	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact _____ On Ice _____ °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 3 of

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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
12	C4-2.5	1	01/08/16	0957	SS										Hold
13	C4-3.0	1	01/08/16	1000	SS										Hold
	~~D1-0.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-1.0~~	~~1~~	~~01/08/16~~		SS										
	~~D1-1.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-2.0~~	~~1~~	~~01/08/16~~		SS										
	~~D1-2.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-3.0~~	~~1~~	~~01/08/16~~		SS										
14	~~D2-0.5~~ D2-0.5	~~1~~	~~01/08/16~~	0753	SS	X	X	X							Composite OCPs
15	D2-1.0	1	01/08/16	0758	SS										Hold
16	D2-1.5	1	01/08/16	0807	SS										Hold
17	D2-2.0	1	01/08/16	0814	SS	X	X	X							Composite OCPs
	~~D2-2.5~~	~~1~~	~~01/08/16~~		SS										
	~~D2-3.0~~	~~1~~	~~01/08/16~~		SS										

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 15:07	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice _____ °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 4 of

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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(714) 832-0064 Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
18	C2-1.5	1	01/08/16	1248	SS									Hold
19	C2-2.0	1	01/08/16	1251	SS	X	X	X						Composite OCPs
20	C2-2.5	1	01/08/16	1255	SS									Hold
21	C2-3.0	1	01/08/16	1300	SS									Hold
22	C3-0.5	1	01/08/16	1243	SS	X	X	X						Composite OCPs
23	C3-1.0	1	01/08/16	1245	SS									Hold
24	C3-1.5	1	01/08/16	1249	SS									Hold
25	C3-2.0	1	01/08/16	1252	SS	X	X	X						Composite OCPs
26	C3-2.5	1	01/08/16	1256	SS									Hold
27	C3-3.0	1	01/08/16	1301	SS									Hold
28	C4-0.5	1	01/08/16	0939	SS	X	X	X						Composite OCP see email
29	C4-1.0	1	01/08/16	0940	SS									Hold
30	C4-1.5	1	01/08/16	0944	SS									Hold
31	C4-2.0	1	01/08/16	0954	SS	X	X	X						Composite OCP see email

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice _____ °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
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ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
32 B4-0.5	1	01/08/16	1048	SS	X	X	X						Composite OCP
33 B4-1.0	1	01/08/16	1051	SS									Hold
34 B4-1.5	1	01/08/16	1056	SS									Hold
35 B4-2.0	1	01/08/16	1059	SS	X	X	X						Composite OCP
36 B4-2.5	1	01/08/16		SS									Hold
37 B4-3.0	1	01/08/16		SS									Hold
~~C1-0.5~~	~~1~~	~~01/08/16~~		~~SS~~									
~~C1-1.0~~	~~1~~	~~01/08/16~~		~~SS~~									
~~C1-1.5~~	~~1~~	~~01/08/16~~		~~SS~~									
~~C1-2.0~~	~~1~~	~~01/08/16~~		~~SS~~									
~~C1-2.5~~	~~1~~	~~01/08/16~~		~~SS~~									
~~C1-3.0~~	~~1~~	~~01/08/16~~		~~SS~~									
38 C2-0.5	1	01/08/16	1244	SS	X	X	X						Composite OCPs
39 C2-1.0	1	01/08/16	1246	SS									Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice _____ °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
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PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
~~B1-2.5~~	~~1~~	~~01/08/16~~		~~SS~~									
~~B1-3.0~~	1	~~01/08/16~~		~~SS~~									
40 ~~B2-0.5~~ STET B2-0.5	1	01/08/16	1326	SS	X	X	X						Composite OCPs
41 ~~B2-1.0~~ B2-0.5D	1	01/08/16	1326	SS	X	X	X						
~~B2-1.5~~	~~1~~	~~01/08/16~~		~~SS~~									
~~B2-2.0~~	~~1~~	~~01/08/16~~											
~~B2-2.5~~	~~1~~	~~01/08/16~~		~~SS~~									
~~B2-3.0~~	~~1~~	~~01/08/16~~		~~SS~~									
42 B3-0.5 Time: 1012	1	01/08/16	~~0836~~ cc	SS	X	X	X						Composite OCPs
43 B3-1.0 1013	1	01/08/16	~~0838~~ cc	SS									Hold
44 B3-1.5 44 1019	1	01/08/16	~~0848~~ cc	SS									Hold
45 B3-2.0 45 1024	1	01/08/16	~~0909~~ cc	SS	X	X	X						Composite OCPs
46 B3-2.5 46 1027	1	01/08/16	~~0916~~ cc	SS									Hold
47 B3-3.0 47 1031	1	01/08/16	~~0918~~ cc	SS									Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact _____ On Ice _____ °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 7 of

ORANGE COAST ANALYTICAL, INC. www.ocalab.com

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PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
~~48~~ A3-1.5	1	01/08/16	0848	SS									Hold
~~49~~ A3-2.0 49	1	01/08/16	0909	SS	X	X	X						See email for composite OCP
~~49~~ A3-2.5 50	1	01/08/16	0916	SS									Hold
~~50~~ A3-3.0 51	1	01/08/16	0918	SS									Hold
~~51~~ A4-0.5 52	1	01/08/16	1415	SS	X	X	X						Composite OCPs
~~52~~ A4-1.0 53	1	01/08/16	1421	SS									Hold
~~53~~ A4-1.5 54	1	01/08/16	1425	SS									Hold
~~54~~ A4-2.0 55	1	01/08/16		SS	X	X	X						Composite OCPs
~~55~~ A4-2.5 56	1	01/08/16	1441	SS									Hold
~~56~~ A4-3.0 57	1	01/08/16	1442	SS									Hold
~~B1-0.5~~	~~1~~	~~01/08/16~~		SS									
~~B1-1.0~~	~~1~~	~~01/08/16~~		SS									
~~B1-1.5~~	~~1~~	~~01/08/16~~		SS									
~~B1-2.0~~	~~1~~	~~01/08/16~~		SS									

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
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SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice _____ °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 8 of

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EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
~~A1-0.5~~	~~1~~	~~01/08/16~~		SS									
~~A1-1.0~~	~~1~~	~~01/08/16~~		SS									
~~A1-1.5~~	~~1~~	~~01/08/16~~		SS									
~~A1-2.0~~	~~1~~	~~01/08/16~~		SS									
~~A1-2.5~~	~~1~~	~~01/08/16~~		SS									
~~A1-3.0~~	~~1~~	~~01/08/16~~		SS									
~~57~~ A2-0.5 58	1	01/08/16	1419	SS	X	X	X						Comp. OCPs
~~58~~ A2-1.0 59	1	01/08/16	1423	SS									Hold
~~59~~ A2-1.5 60	1	01/08/16	1429	SS									Hold
~~60~~ A2-2.0 61 (not collected)	1	01/08/16	1430	SS	X	X	X						Comp OCPs
~~A2-2.5~~	~~1~~	~~01/08/16~~		SS									
~~A2-3.0~~	~~1~~	~~01/08/16~~		SS									
~~61~~ A3-0.5 62	1	01/08/16	0836	SS	X	X	X						see email for OCP composite
~~62~~ A3-1.0 63	1	01/08/16	0838	SS									Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice _____ °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Orange Coast Analytical

From: "Crozier, Carrie" <Carrie.Crozier@parsons.com>
Date: Friday, January 08, 2016 7:18 PM
To: "Orange Coast Analytical" <ocalab@sbcglobal.net>
Subject: Re: Missing samples

See below:
Also, no samples coming in tomorrow, our equipment broke and we will finish up on 1/18.

Sent from my iPhone

On Jan 8, 2016, at 6:51 PM, Orange Coast Analytical <ocalab@sbcglobal.net> wrote:

> Hello Carrie,
>
> We do not have 2 samples that were on the COC:
> E4-1.0 not collected, no sample
>
> A2-2.0 not collected, no sample
>
> Also we have a sample that was not included on the COC:
>
> DRUM 1 sample time 1447
> It was on its own sheet, and I forgot to hand it off with the sample. I'll send you a scan of it Monday. Please analyze Drum1 for TPHg TPHd and TPHo, title 22 metals, lead, arsenic, and OCPs on standard turn around. Also, please separate this one out so it is on its own lab report.
>
> Please advise,
>
> Thank you,
>
> Miriam

ORANGE COAST ANALYTICAL, INC.
3002 Dow Ave. Ste. 532 Tustin, CA, 92780
Office: 714-832-0064 Fax: 714-832-0067
ocalab@sbcglobal.net

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<20160108182135320.pdf>

Subject **93rd Street ES Composite instructions**
From Crozier, Carrie <Carrie.Crozier@parsons.com>
To Mark Noorani <markn@ocalab.com>
Date 2016-01-08 18:34

Hi Mark,
Please composite OCPs as follows:

1. A2-0.5, B2-0.5 – Sample name AB2-0.5
2. A2-2.0, B2-2.0 – Sample name AB2-0.5 – No samples collected
3. C2-0.5, D2-0.5 – Sample name CD2-0.5
4. C2-2.0, D2-2.0 – Sample name CD2-2.0
5. A3-0.5, A4-0.5, B3-0.5, B4-0.5 – if you have enough sample volume please run a duplicate sample of this OCP composite sample. Sample names AB34-0.5 and AB34-0.5D.
6. A3-2.0, B3-2.0, B4-2.0 – Sample name AB34-2.0
7. C3-0.5, C4-0.5, D3-0.5, D4-0.5 – Sample name CD34-0.5
8. C3-2.0, C4-2.0, D4-2.0 – Sample name CD34-2.0
9. E4-0.5 goes alone.

Also, for B2-0.5, I sent a duplicate sample, but there is a lot of gravel from that sample location, so if you don't have enough usable sample to get the analysis requested please use the duplicate sample to supplement the primary sample.

Thanks!

Carrie Crozier, PG
Senior Environmental Geologist
PARSONS
100 West Walnut Street ♦ Pasadena, CA 91124
Phone – 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com ♦ www.parsons.com

Sample Receipt Report

Labratory Reference **PEI 20512**

Logged in by MM

Received:	01/08/16 13:07	Company Name:	Parsons Environment & Infrastructure,
Method of Shipment:	Lab Pick-Up	Project Manager:	Ms. Carrie Crozier
Shipping Container:	Cooler	Project Name:	93rd Street Elementary School- LAUS
# Shipping Containers:	1	Project #:	

Sample Quantity
72 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Temperature	3°C		
Shipping Intact	Yes ☐	N/A ☑	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20512A
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	1/8/2016
Date Reported:	1/19/2016
Chain of Custody Received:	☑
Analytical Method:	6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
D3-1.0	20512-002	1/8/2016	1/8/2016	Soil
C4-2.5	20512-012	1/8/2016	1/8/2016	Soil
B4-1.0	20512-033	1/8/2016	1/8/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
D3-1.0	20512-002	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Lead	6010B	24	mg/kg	01/14/16	01/18/16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4-2.5	20512-012	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Lead	6010B	9.3	mg/kg	01/14/16	01/18/16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4-1.0	20512-033	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	5.9	mg/kg	01/14/16	01/18/16	--	1

Method Blank — Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0114164	Arsenic	6010B	<0.50	mg/kg	01/14/16	01/15/16	--	1
MBSG0114164	Lead	6010B	<0.50	mg/kg	01/14/16	01/15/16	--	1

QA/QC Report
for
Metals

Reference #: PEI 20512A

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6010B**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Arsenic	1/14/2016	1/18/2016	1/18/2016	20533-001	2.50	20.0	21.6	21.5	96	95	0	75-125	20	--
Lead	1/14/2016	1/18/2016	1/18/2016	20533-001	230	20.0	252	252	110	110	0	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Arsenic	1/14/2016	1/15/2016	1/15/2016	SG0114164	20.0	19.4	19.7	97	99	2	80-120	20	--
Lead	1/14/2016	1/15/2016	1/15/2016	SG0114164	20.0	20.1	20.2	100	101	0	80-120	20	--

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Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Orange Coast Analytical

From: "Crozier, Carrie" <Carrie.Crozier@parsons.com>
Date: Tuesday, January 12, 2016 3:29 PM
To: "Orange Coast Analytical" <ocalab@sbcglobal.net>
Cc: "Mark Noorani" <markn@ocalab.com>
Subject: RE: Report and Invoice- PEI 20512 93rd Street Elementary School- LAUSD

Hi Orange Coast Team,

I'd like to have you run the following samples from the 93rd Street ES project, currently on hold on 72-hour turn around:

1. C4-2.5 for Lead (Lab Sample# 20512-012)
2. D3-1.0 for Lead (Lab Sample# 20512-002)
3. B4-1.0 for Arsenic (Lab Sample#20512-033)

Please continue to hold the other samples.

Thanks!

Carrie Crozier
Phone – 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

From: Orange Coast Analytical [mailto:ocalab@sbcglobal.net]
Sent: Tuesday, January 12, 2016 1:22 PM
To: Crozier, Carrie
Subject: Report and Invoice- PEI 20512 93rd Street Elementary School- LAUSD

Good afternoon Carrie,

Please find report and invoice 20512 attached and contact us if you have any questions.

Thank you,

Miriam

ORANGE COAST ANALYTICAL, INC.
3002 Dow Ave. Ste. 532 Tustin, CA, 92780
Office: 714-832-0064 Fax: 714-832-0067
ocalab@sbcglobal.net

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Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 1 of 8

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(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

ANAYSIS / CONTAINER / PRESERVATIVE

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
1	D3-0.5	1	01/08/16		SS	X	X	X							Composite OCP
2	D3-1.0	1	01/08/16		SS										Hold
	~~D3-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-2.0~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
3	D4-0.5	1	01/08/16	1140	SS	X	X	X							Composite OCP
4	D4-1.0	1	01/08/16	1144	SS										Hold
5	D4-1.5	1	01/08/16	1146	SS										Hold
6	D4-2.0	1	01/08/16	1150	SS	X	X	X							Composite OCP
7	D4-2.5	1	01/08/16	1153	SS										Hold
8	D4-3.0	1	01/08/16	1158	SS										Hold
9	E4-0.5	1	01/08/16	1349	SS	X	X	X							Composite OCPs
10	E4-1.0	1	01/08/16		SS										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20912
Page 2 of 8

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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~E4-1.5~~	~~1~~	~~01/08/16~~		SS										
~~E4-2.0~~	~~1~~	~~01/08/16~~		SS										
~~E4-2.5~~	~~1~~	~~01/08/16~~		SS										
~~E4-3.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-0.5D~~	~~1~~	~~01/08/16~~		SS										
~~B2-2.0D~~	~~1~~	~~01/08/16~~		SS										
C3-0.5D	1	01/08/16		SS	X	X	X							
~~E4-2.0D~~	~~1~~	~~01/08/16~~		SS										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 15:07	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

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Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 3 of 8

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EMAIL:	carrie.crozier@parsons.com	P O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
2	C4-2.5	1	01/08/16	0957	SS										Hold
3	C4-3.0	1	01/08/16	1000	SS										Hold
	~~D1-0.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-1.0~~	~~1~~	~~01/08/16~~		SS										
	~~D1-1.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-2.0~~	~~1~~	~~01/08/16~~		SS										
	~~D1-2.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-3.0~~	~~1~~	~~01/08/16~~		SS										
4	~~D2-0.5~~ ~~SE~~ By D2-0.5	~~1~~	~~01/08/16~~	0753	SS	X	X	V							Composite OCPs
5	D2-1.0	1	01/08/16	0758	SS										Hold
6	D2-1.5	1	01/08/16	0807	SS										Hold
7	D2-2.0	1	01/08/16	0814	SS	X	X	V							Composite OCPs
	~~D2-2.5~~	~~1~~	~~01/08/16~~		SS										
	~~D2-3.0~~	~~1~~	~~01/08/16~~		SS										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 15:07	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 4 of 8

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	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
8	C2-1.5	1	01/08/16	1248	SS										Hold
9	C2-2.0	1	01/08/16	1251	SS	X	X	X							Composite OCPs
20	C2-2.5	1	01/08/16	1255	SS										Hold
21	C2-3.0	1	01/08/16	1300	SS										Hold
22	C3-0.5	1	01/08/16	1243	SS	X	X	X							Composite OCPs
3	C3-1.0	1	01/08/16	1245	SS										Hold
4	C3-1.5	1	01/08/16	1249	SS										Hold
5	C3-2.0	1	01/08/16	1252	SS	X	X	X							Composite OCPs
6	C3-2.5	1	01/08/16	1256	SS										Hold
7	C3-3.0	1	01/08/16	1301	SS										Hold
8	C4-0.5	1	01/08/16	0939	SS	X	X	X							Composite OCP see email
9	C4-1.0	1	01/08/16	0940	SS										Hold
0	C4-1.5	1	01/08/16	0944	SS										Hold
1	C4-2.0	1	01/08/16	0954	SS	X	X	X							Composite OCP see email

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 5 of 8

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
32 B4-0.5	1	01/08/16	1048	SS	X	X	X							Composite OCP
33 B4-1.0	1	01/08/16	1051	SS										Hold
34 B4-1.5	1	01/08/16	1056	SS										Hold
35 B4-2.0	1	01/08/16	1059	SS	X	X	X							Composite OCP
36 B4-2.5	1	01/08/16		SS										Hold
37 B4-3.0	1	01/08/16		SS										Hold
~~C1-0.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-1.0~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-2.0~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
38 C2-0.5	1	01/08/16	1244	SS	X	X	X							Composite OCPs
39 C2-1.0	1	01/08/16	1246	SS										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 6 of 8

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Phoenix, AZ 85040
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CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~B1-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B1-3.0~~	1	~~01/08/16~~		~~SS~~										
10 B2-0.5 STET B2-0.5	1	01/08/16	1326	SS	X	X	X							Composite OCPs
10 ~~B2-1.0~~ B2-0.5D	1	01/08/16	1326	SS	X	X	X							
~~B2-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B2-2.0~~	~~1~~	~~01/08/16~~												
~~B2-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B2-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
12 B3-0.5 rim: 1012	1	01/08/16	~~0836~~ cc	SS	X	X	X							Composite OCPs
13 B3-1.0 1013	1	01/08/16	~~0838~~ cc	SS										Hold
14 B3-1.5 44 1019	1	01/08/16	~~0848~~ cc	SS										Hold
15 B3-2.0 45 1024	1	01/08/16	~~0909~~ cc	SS	X	X	X							Composite OCPs
16 B3-2.5 46 1027	1	01/08/16	~~0916~~ cc	SS										Hold
16 B3-3.0 47 1031	1	01/08/16	~~0918~~ cc	SS										Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 7 of 8

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EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
18 A3-1.5	1	01/08/16	0848	SS									Hold
~~18~~ A3-2.0 49	1	01/08/16	0909	SS	X	X	X						See email for composite OCP
~~19~~ A3-2.5 50	1	01/08/16	0916	SS									Hold
~~20~~ A3-3.0 51	1	01/08/16	0918	SS									Hold
~~21~~ A4-0.5 52	1	01/08/16	1415	SS	X	X	X						Composite OCPs
~~22~~ A4-1.0 53	1	01/08/16	1421	SS									Hold
~~23~~ A4-1.5 54	1	01/08/16	~~1425~~	SS									Hold
~~24~~ A4-2.0 55	1	01/08/16		SS	X	X	X						Composite OCPs
~~25~~ A4-2.5 56	1	01/08/16	1441	SS									Hold
~~26~~ A4-3.0 57	1	01/08/16	1442	SS									Hold
~~B1-0.5~~	~~1~~	~~01/08/16~~		SS									
~~B1-1.0~~	~~1~~	~~01/08/16~~		SS									
~~B1-1.5~~	~~1~~	~~01/08/16~~		SS									
~~B1-2.0~~	~~1~~	~~01/08/16~~		SS									

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

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Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 8 of 8

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EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~A1-0.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-1.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-1.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-2.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-2.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-3.0~~	~~1~~	~~01/08/16~~		SS										
A2-0.5 58	1	01/08/16	1419	SS	X	X	X							Comp. OCPs
A2-1.0 59	1	01/08/16	1423	SS										Hold
A2-1.5 60	1	01/08/16	1429	SS										Hold
A2-2.0 61 (not collected)	1	01/08/16	1430	SS	X	X	X							Comp OCPs
~~A2-2.5~~	~~1~~	~~01/08/16~~		SS										
~~A2-3.0~~	~~1~~	~~01/08/16~~		SS										
A3-0.5 62	1	01/08/16	0836	SS	X	X	X							see email for OCP composite
A3-1.0 63	1	01/08/16	0838	SS										Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact ✓
On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20512B
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	1/14/2016
Date Reported:	1/20/2016
Chain of Custody Received:	☑
Analytical Method:	6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512B
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512B
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
D3-0.5	20512-001	1/14/2016	1/8/2016	Soil
C4-2.0	20512-031	1/14/2016	1/8/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512B
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
D3-0.5	20512-001	1/14/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
STLC Lead	6010B	0.82	mg/L	01/19/16	01/20/16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4-2.0	20512-031	1/14/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
STLC Lead	6010B	8.3	mg/L	01/19/16	01/20/16	--	1

Method Blank — Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0119162	STLC Lead	6010B	<0.20	mg/L	01/19/16	01/20/16	--	1

QA/QC Report
for
Metals

Reference #: PEI 20512B

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

STLC CCR

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
STLC Lead	1/19/2016	1/20/2016	1/20/2016	20557-002	0.750	1.00	1.67	1.62	92	87	3	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
STLC Lead	1/19/2016	1/20/2016	1/20/2016	SG0119162	1.00	1.06	1.01	106	101	5	80-120	20	--

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Orange Coast Analytical

From: "Crozier, Carrie" <Carrie.Crozier@parsons.com>
Date: Thursday, January 14, 2016 3:30 PM
To: "Mark Noorani" <markn@ocalab.com>
Cc: "Orange Coast Analytical" <ocalab@sbcglobal.net>
Subject: RE: 93rd Street Elementary School - request for additional quote

Hi Mark,
Please run STLC for lead for samples C4-2.0 and D3-0.5

Thanks!
Carrie Crozier
Phone – 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

From: Mark Noorani [mailto:markn@ocalab.com]
Sent: Wednesday, January 13, 2016 1:29 PM
To: Crozier, Carrie
Cc: Orange Coast Analytical
Subject: Re: 93rd Street Elementary School - request for additional quote

Hi Carrie:

The cost for TCLP or STLC extraction is $45 per sample plus $11.90 per element. We do have enough sample for STLC and TCLP for the samples in question. Please advise if you like us to proceed with these analyses.

Thank you,

Mark

On 2016-01-13 11:16, Crozier, Carrie wrote:

> Hi Mark,
> Would you please provide a quote for additional sample analysis on the 93rd Street ES – LAUSD project?
>
> Lead – STLC, TCLP
> Arsenic – STLC, TCLP
>
> Do we have enough remaining sample volume from C4-2.0 and D3-0.5 to run STLC and TCLP for lead, and from B4-0.5 to run STLC, TCLP for AS?
>
> Thanks!
>
> Carrie Crozier, PG
> Senior Environmental Geologist
> PARSONS
> 100 West Walnut Street ♦ Pasadena, CA 91124
> Phone – 626.440.2747 Cell - 626.482.6088
> Carrie.Crozier@Parsons.com ♦ www.parsons.com

--
Mark Noorani | Laboratory Director
Orange Coast Analytical, Inc.
3002 Dow Ave. Ste. 532 Tustin, CA, 92780
Office: 714-832-0064 480-736-0960
markn@ocalab.com

This message is intended exclusively for the individual or entity to which it is addressed. This communication may contain information that

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 1 of 8

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CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

ANAYSIS / CONTAINER / PRESERVATIVE

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
1	D3-0.5	1	01/08/16		SS	X	X	X							Composite OCP
2	D3-1.0	1	01/08/16		SS										Hold
	~~D3-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-2.0~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
3	D4-0.5	1	01/08/16	1140	SS	X	X	X							Composite OCP
4	D4-1.0	1	01/08/16	1144	SS										Hold
5	D4-1.5	1	01/08/16	1146	SS										Hold
6	D4-2.0	1	01/08/16	1150	SS	X	X	X							Composite OCP
7	D4-2.5	1	01/08/16	1153	SS										Hold
8	D4-3.0	1	01/08/16	1158	SS										Hold
9	E4-0.5	1	01/08/16	1349	SS	X	X	X							Composite OCPs
10	E4-1.0	1	01/08/16		SS										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20912
Page 2 of 8

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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~E4-1.5~~	~~1~~	~~01/08/16~~		SS										
~~E4-2.0~~	~~1~~	~~01/08/16~~		SS										
~~E4-2.5~~	~~1~~	~~01/08/16~~		SS										
~~E4-3.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-0.5D~~	~~1~~	~~01/08/16~~		SS										
~~B2-2.0D~~	~~1~~	~~01/08/16~~		SS										
C3-0.5D	1	01/08/16		SS	X	X	X							
~~E4-2.0D~~	~~1~~	~~01/08/16~~		SS										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 15:07	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

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Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 3 of 8

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PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
2	C4-2.5	1	01/08/16	0957	SS										Hold
3	C4-3.0	1	01/08/16	1000	SS										Hold
	~~D1-0.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-1.0~~	~~1~~	~~01/08/16~~		SS										
	~~D1-1.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-2.0~~	~~1~~	~~01/08/16~~		SS										
	~~D1-2.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-3.0~~	~~1~~	~~01/08/16~~		SS										
4	~~D2-0.5~~ ~~SE~~ By D2-0.5	~~1~~	~~01/08/16~~	0753	SS	X	X	V							Composite OCPs
5	D2-1.0	1	01/08/16	0758	SS										Hold
6	D2-1.5	1	01/08/16	0807	SS										Hold
7	D2-2.0	1	01/08/16	0814	SS	X	X	V							Composite OCPs
	~~D2-2.5~~	~~1~~	~~01/08/16~~		SS										
	~~D2-3.0~~	~~1~~	~~01/08/16~~		SS										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 15:07	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 4 of 8

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	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
8	C2-1.5	1	01/08/16	1248	SS										Hold
9	C2-2.0	1	01/08/16	1251	SS	X	X	X							Composite OCPs
20	C2-2.5	1	01/08/16	1255	SS										Hold
21	C2-3.0	1	01/08/16	1300	SS										Hold
22	C3-0.5	1	01/08/16	1243	SS	X	X	X							Composite OCPs
3	C3-1.0	1	01/08/16	1245	SS										Hold
4	C3-1.5	1	01/08/16	1249	SS										Hold
5	C3-2.0	1	01/08/16	1252	SS	X	X	X							Composite OCPs
6	C3-2.5	1	01/08/16	1256	SS										Hold
7	C3-3.0	1	01/08/16	1301	SS										Hold
8	C4-0.5	1	01/08/16	0939	SS	X	X	X							Composite OCP see email
9	C4-1.0	1	01/08/16	0940	SS										Hold
0	C4-1.5	1	01/08/16	0944	SS										Hold
1	C4-2.0	1	01/08/16	0954	SS	X	X	X							Composite OCP see email

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 5 of 8

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SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
32 B4-0.5	1	01/08/16	1048	SS	X	X	X							Composite OCP
33 B4-1.0	1	01/08/16	1051	SS										Hold
34 B4-1.5	1	01/08/16	1056	SS										Hold
35 B4-2.0	1	01/08/16	1059	SS	X	X	X							Composite OCP
36 B4-2.5	1	01/08/16		SS										Hold
37 B4-3.0	1	01/08/16		SS										Hold
~~C1-0.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-1.0~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-2.0~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
38 C2-0.5	1	01/08/16	1244	SS	X	X	X							Composite OCPs
39 C2-1.0	1	01/08/16	1246	SS										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 6 of 8

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SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~B1-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B1-3.0~~	1	~~01/08/16~~		~~SS~~										
10 B2-0.5 STET B2-0.5	1	01/08/16	1326	SS	X	X	X							Composite OCPs
10 ~~B2-1.0~~ B2-0.5D	1	01/08/16	1326	SS	X	X	X							
~~B2-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B2-2.0~~	~~1~~	~~01/08/16~~												
~~B2-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B2-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
12 B3-0.5 rim: 1012	1	01/08/16	~~0836~~ cc	SS	X	X	X							Composite OCPs
13 B3-1.0 1013	1	01/08/16	~~0838~~ cc	SS										Hold
14 B3-1.5 44 1019	1	01/08/16	~~0848~~ cc	SS										Hold
15 B3-2.0 45 1024	1	01/08/16	~~0909~~ cc	SS	X	X	X							Composite OCPs
16 B3-2.5 46 1027	1	01/08/16	~~0916~~ cc	SS										Hold
16 B3-3.0 47 1031	1	01/08/16	~~0918~~ cc	SS										Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 7 of 8

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
18 A3-1.5	1	01/08/16	0848	SS									Hold
~~18~~ A3-2.0 49	1	01/08/16	0909	SS	X	X	X						See email for composite OCP
~~19~~ A3-2.5 50	1	01/08/16	0916	SS									Hold
~~20~~ A3-3.0 51	1	01/08/16	0918	SS									Hold
~~21~~ A4-0.5 52	1	01/08/16	1415	SS	X	X	X						Composite OCPs
~~22~~ A4-1.0 53	1	01/08/16	1421	SS									Hold
~~23~~ A4-1.5 54	1	01/08/16	~~1425~~	SS									Hold
~~24~~ A4-2.0 55	1	01/08/16		SS	X	X	X						Composite OCPs
~~25~~ A4-2.5 56	1	01/08/16	1441	SS									Hold
~~26~~ A4-3.0 57	1	01/08/16	1442	SS									Hold
~~B1-0.5~~	~~1~~	~~01/08/16~~		SS									
~~B1-1.0~~	~~1~~	~~01/08/16~~		SS									
~~B1-1.5~~	~~1~~	~~01/08/16~~		SS									
~~B1-2.0~~	~~1~~	~~01/08/16~~		SS									

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 8 of 8

ORANGE COAST ANALYTICAL, INC. www.ocalab.com

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COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~A1-0.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-1.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-1.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-2.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-2.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-3.0~~	~~1~~	~~01/08/16~~		SS										
A2-0.5 58	1	01/08/16	1419	SS	X	X	X							Comp. OCPs
A2-1.0 59	1	01/08/16	1423	SS										Hold
A2-1.5 60	1	01/08/16	1429	SS										Hold
A2-2.0 61 (not collected)	1	01/08/16	1430	SS	X	X	X							Comp OCPs
~~A2-2.5~~	~~1~~	~~01/08/16~~		SS										
~~A2-3.0~~	~~1~~	~~01/08/16~~		SS										
A3-0.5 62	1	01/08/16	0836	SS	X	X	X							see email for OCP composite
A3-1.0 63	1	01/08/16	0838	SS										Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact ✓
On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

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LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20512C
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	1/8/2016
Date Reported:	2/2/2016
Chain of Custody Received:	☑
Analytical Method:	1311/6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512C
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512C
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4-2.0	20512-031	1/8/2016	1/8/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20512C
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4-2.0	20512-031	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
TCLP Lead	6010B	<0.080	mg/l	01/28/16	01/29/16	--	1

QA/QC Report
for
Metals

Reference #: PEI 20512C

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **TCLP 6010B**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
TCLP Lead	1/28/2016	1/29/2016	1/29/2016	20619-002	0.00	0.400	0.434	0.434	108	108	0	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
TCLP Lead	1/28/2016	1/29/2016	1/29/2016	SG0128169	0.400	0.434	0.426	108	106	2	80-120	20	--

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 1 of 8

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CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

ANAYSIS / CONTAINER / PRESERVATIVE

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
1	D3-0.5	1	01/08/16		SS	X	X	X							Composite OCP
2	D3-1.0	1	01/08/16		SS										Hold
	~~D3-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-2.0~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
	~~D3-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
3	D4-0.5	1	01/08/16	1140	SS	X	X	X							Composite OCP
4	D4-1.0	1	01/08/16	1144	SS										Hold
5	D4-1.5	1	01/08/16	1146	SS										Hold
6	D4-2.0	1	01/08/16	1150	SS	X	X	X							Composite OCP
7	D4-2.5	1	01/08/16	1153	SS										Hold
8	D4-3.0	1	01/08/16	1158	SS										Hold
9	E4-0.5	1	01/08/16	1349	SS	X	X	X							Composite OCPs
10	E4-1.0	1	01/08/16		SS										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20912
Page 2 of 8

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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~E4-1.5~~	~~1~~	~~01/08/16~~		SS										
~~E4-2.0~~	~~1~~	~~01/08/16~~		SS										
~~E4-2.5~~	~~1~~	~~01/08/16~~		SS										
~~E4-3.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-0.5D~~	~~1~~	~~01/08/16~~		SS										
~~B2-2.0D~~	~~1~~	~~01/08/16~~		SS										
C3-0.5D	1	01/08/16		SS	X	X	X							
~~E4-2.0D~~	~~1~~	~~01/08/16~~		SS										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 15:07	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 3 of 8

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COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
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PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
2	C4-2.5	1	01/08/16	0957	SS										Hold
3	C4-3.0	1	01/08/16	1000	SS										Hold
	~~D1-0.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-1.0~~	~~1~~	~~01/08/16~~		SS										
	~~D1-1.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-2.0~~	~~1~~	~~01/08/16~~		SS										
	~~D1-2.5~~	~~1~~	~~01/08/16~~		SS										
	~~D1-3.0~~	~~1~~	~~01/08/16~~		SS										
4	~~D2-0.5~~ ~~SE~~ By D2-0.5	~~1~~	~~01/08/16~~	0753	SS	X	X	V							Composite OCPs
5	D2-1.0	1	01/08/16	0758	SS										Hold
6	D2-1.5	1	01/08/16	0807	SS										Hold
7	D2-2.0	1	01/08/16	0814	SS	X	X	V							Composite OCPs
	~~D2-2.5~~	~~1~~	~~01/08/16~~		SS										
	~~D2-3.0~~	~~1~~	~~01/08/16~~		SS										

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 15:07	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 4 of 8

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EMAIL:	carrie.crozier@parsons.com	P.O #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
8	C2-1.5	1	01/08/16	1248	SS										Hold
9	C2-2.0	1	01/08/16	1251	SS	X	X	X							Composite OCPs
20	C2-2.5	1	01/08/16	1255	SS										Hold
21	C2-3.0	1	01/08/16	1300	SS										Hold
22	C3-0.5	1	01/08/16	1243	SS	X	X	X							Composite OCPs
3	C3-1.0	1	01/08/16	1245	SS										Hold
4	C3-1.5	1	01/08/16	1249	SS										Hold
5	C3-2.0	1	01/08/16	1252	SS	X	X	X							Composite OCPs
6	C3-2.5	1	01/08/16	1256	SS										Hold
7	C3-3.0	1	01/08/16	1301	SS										Hold
8	C4-0.5	1	01/08/16	0939	SS	X	X	X							Composite OCP see email
9	C4-1.0	1	01/08/16	0940	SS										Hold
0	C4-1.5	1	01/08/16	0944	SS										Hold
1	C4-2.0	1	01/08/16	0954	SS	X	X	X							Composite OCP see email

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 5 of 8

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EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
32 B4-0.5	1	01/08/16	1048	SS	X	X	X							Composite OCP
33 B4-1.0	1	01/08/16	1051	SS										Hold
34 B4-1.5	1	01/08/16	1056	SS										Hold
35 B4-2.0	1	01/08/16	1059	SS	X	X	X							Composite OCP
36 B4-2.5	1	01/08/16		SS										Hold
37 B4-3.0	1	01/08/16		SS										Hold
~~C1-0.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-1.0~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-2.0~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~C1-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
38 C2-0.5	1	01/08/16	1244	SS	X	X	X							Composite OCPs
39 C2-1.0	1	01/08/16	1246	SS										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 6 of 8

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~B1-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B1-3.0~~	1	~~01/08/16~~		~~SS~~										
10 B2-0.5 STET B2-0.5	1	01/08/16	1326	SS	X	X	X							Composite OCPs
10 ~~B2-1.0~~ B2-0.5D	1	01/08/16	1326	SS	X	X	X							
~~B2-1.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B2-2.0~~	~~1~~	~~01/08/16~~												
~~B2-2.5~~	~~1~~	~~01/08/16~~		~~SS~~										
~~B2-3.0~~	~~1~~	~~01/08/16~~		~~SS~~										
12 B3-0.5 rim: 1012	1	01/08/16	~~0836~~ cc	SS	X	X	X							Composite OCPs
13 B3-1.0 1013	1	01/08/16	~~0838~~ cc	SS										Hold
14 B3-1.5 44 1019	1	01/08/16	~~0848~~ cc	SS										Hold
15 B3-2.0 45 1024	1	01/08/16	~~0909~~ cc	SS	X	X	X							Composite OCPs
16 B3-2.5 46 1027	1	01/08/16	~~0916~~ cc	SS										Hold
16 B3-3.0 47 1031	1	01/08/16	~~0918~~ cc	SS										Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 7 of 8

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
18 A3-1.5	1	01/08/16	0848	SS									Hold
~~18~~ A3-2.0 49	1	01/08/16	0909	SS	X	X	X						See email for composite OCP
~~19~~ A3-2.5 50	1	01/08/16	0916	SS									Hold
~~20~~ A3-3.0 51	1	01/08/16	0918	SS									Hold
~~21~~ A4-0.5 52	1	01/08/16	1415	SS	X	X	X						Composite OCPs
~~22~~ A4-1.0 53	1	01/08/16	1421	SS									Hold
~~23~~ A4-1.5 54	1	01/08/16	~~1425~~	SS									Hold
~~24~~ A4-2.0 55	1	01/08/16		SS	X	X	X						Composite OCPs
~~25~~ A4-2.5 56	1	01/08/16	1441	SS									Hold
~~26~~ A4-3.0 57	1	01/08/16	1442	SS									Hold
~~B1-0.5~~	~~1~~	~~01/08/16~~		SS									
~~B1-1.0~~	~~1~~	~~01/08/16~~		SS									
~~B1-1.5~~	~~1~~	~~01/08/16~~		SS									
~~B1-2.0~~	~~1~~	~~01/08/16~~		SS									

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20512
Page 8 of 8

ORANGE COAST ANALYTICAL, INC. www.ocalab.com

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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
~~A1-0.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-1.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-1.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-2.0~~	~~1~~	~~01/08/16~~		SS										
~~A1-2.5~~	~~1~~	~~01/08/16~~		SS										
~~A1-3.0~~	~~1~~	~~01/08/16~~		SS										
A2-0.5 58	1	01/08/16	1419	SS	X	X	X							Comp. OCPs
A2-1.0 59	1	01/08/16	1423	SS										Hold
A2-1.5 60	1	01/08/16	1429	SS										Hold
A2-2.0 61 (not collected)	1	01/08/16	1430	SS	X	X	X							Comp OCPs
~~A2-2.5~~	~~1~~	~~01/08/16~~		SS										
~~A2-3.0~~	~~1~~	~~01/08/16~~		SS										
A3-0.5 62	1	01/08/16	0836	SS	X	X	X							see email for OCP composite
A3-1.0 63	1	01/08/16	0838	SS										Hold

Total No. of Samples: Method of Shipment:

Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507	[signature]	01/08/16 15:07
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By:	Date/Time:

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact ✓
On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20514
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	1/8/2016
Date Reported:	1/18/2016
Chain of Custody Received:	☑
Analytical Method:	8015B, 8081A, 6010B, 7471A,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20514
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 3ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20514
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
DRUM 1	20514-001	1/8/2016	1/8/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20514
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Extractable Fuel Hydrocarbons (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
DRUM 1	20514-001	1/8/2016	1/8/2016	1/12/2016	1/14/2016	Soil

ANALYTE	mg/kg	Surrogate:	% RC*
TPH-d (C10-C25)	49	Octacosane	112
		* Acc Recovery:	66-155 %

Dilution Factor: 1
Data Qualifiers: S1,

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
DRUM 1	20514-001	1/8/2016	1/8/2016	1/12/2016	1/14/2016	Soil

ANALYTE	mg/kg	Surrogate:	% RC*
TPH-mo (C26-C36)	170	Octacosane	112
		* Acc Recovery:	66-155 %

Dilution Factor: 1
Data Qualifiers: S1,

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBJB0112162			1/12/2016	1/14/2016	Soil

ANALYTE	mg/kg	Surrogate:	% RC*
TPH-d (C10-C25)	<10	Octacosane	110
		* Acc Recovery:	66-155 %

Dilution Factor: 1
Data Qualifiers: None

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBJB0112162			1/12/2016	1/14/2016	Soil

ANALYTE	mg/kg	Surrogate:	% RC*
TPH-mo (C26-C36)	<30	Octacosane	110
		* Acc Recovery:	66-155 %

Dilution Factor: 1
Data Qualifiers: None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20514
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Gasoline Range Organics - GROs (EPA 8015B)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
DRUM 1	20514-001	1/8/2016	1/8/2016	1/12/2016	1/12/2016	Soil

ANALYTE	mg/kg	Surrogate:	% RC*
TPH as GROs(C6-C10)	<0.25	α-α-α-Trifluorotoluene	51

Dilution Factor: 1
Data Qualifiers: None

* Acceptable Recovery: 51-130 %

Method Blank	MBJB0112161			1/12/2016	1/12/2016	Soil

ANALYTE	mg/kg	Surrogate:	% RC*
TPH as GROs(C6-C10)	<0.25	α-α-α-Trifluorotoluene	104

Dilution Factor: 1
Data Qualifiers: None

* Acceptable Recovery: 51-130 %

Gasoline Range Organics (GROs) are quantitated against a gasoline standard.

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20514
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
DRUM 1	20514-001	1/8/2016	1/8/2016	1/9/2016	1/12/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<20
alpha-BHC	319-84-6	<50
beta-BHC	319-85-7	<50
gamma-BHC (Lindane)	58-89-9	<50
delta-BHC	319-86-8	<100
Chlordane	57-74-9	<300
4,4'-DDD	72-54-8	<100
4,4'-DDE	72-55-9	<50
4,4'-DDT	50-29-3	<100
Dieldrin	60-57-1	<20
Endosulfan I	959-98-8	<100
Endosulfan II	33213-65-9	<50
Endosulfan sulfate	1031-07-8	<100
Endrin	72-20-8	<100
Endrin aldehyde	7421-93-4	<100
Endrin ketone	53494-70-5	<50
Heptachlor	76-44-8	<20
Heptachlor epoxide	1024-57-3	<50
Methoxychlor	72-43-5	<100
Toxaphene	8001-35-2	<400

Surrogate:	% RC*
Decachlorobiphenyl	55

* Acceptable Recovery: 35-158 %

Dilution Factor: 10

Data Qualifiers: D1,

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20514
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Organochlorine Pesticides (EPA 8081A)

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Date Extracted	Date Analyzed	Matrix
Method Blank	MBVU0109161			1/9/2016	1/11/2016	Soil

ANALYTE	CAS #	µg/kg
Aldrin	309-00-2	<2
alpha-BHC	319-84-6	<5
beta-BHC	319-85-7	<5
gamma-BHC (Lindane)	58-89-9	<5
delta-BHC	319-86-8	<10
Chlordane	57-74-9	<30
4,4'-DDD	72-54-8	<10
4,4'-DDE	72-55-9	<5
4,4'-DDT	50-29-3	<10
Dieldrin	60-57-1	<2
Endosulfan I	959-98-8	<10
Endosulfan II	33213-65-9	<5
Endosulfan sulfate	1031-07-8	<10
Endrin	72-20-8	<10
Endrin aldehyde	7421-93-4	<10
Endrin ketone	53494-70-5	<5
Heptachlor	76-44-8	<2
Heptachlor epoxide	1024-57-3	<5
Methoxychlor	72-43-5	<10
Toxaphene	8001-35-2	<40

Surrogate:	% RC*
Decachlorobiphenyl	91

* Acceptable Recovery: 35-158 %

Dilution Factor: 1

Data Qualifiers: None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20514
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
DRUM 1	20514-001	1/8/2016	1/8/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Antimony	6010B	<1.0	mg/kg	01/11/16	01/12/16	--	1
Arsenic	6010B	4.6	mg/kg	01/11/16	01/11/16	--	1
Barium	6010B	170	mg/kg	01/11/16	01/12/16	--	1
Beryllium	6010B	0.65	mg/kg	01/11/16	01/12/16	--	1
Cadmium	6010B	1.3	mg/kg	01/11/16	01/12/16	--	1
Chromium	6010B	27	mg/kg	01/11/16	01/12/16	--	1
Cobalt	6010B	13	mg/kg	01/11/16	01/12/16	--	1
Copper	6010B	43	mg/kg	01/11/16	01/12/16	--	1
Lead	6010B	7.8	mg/kg	01/11/16	01/11/16	--	1
Mercury	7471A	0.17	mg/kg	01/12/16	01/14/16	--	1
Molybdenum	6010B	1.5	mg/kg	01/11/16	01/12/16	--	1
Nickel	6010B	21	mg/kg	01/11/16	01/12/16	--	1
Selenium	6010B	<1.0	mg/kg	01/11/16	01/12/16	--	1
Silver	6010B	<0.50	mg/kg	01/11/16	01/12/16	--	1
Thallium	6010B	<2.0	mg/kg	01/11/16	01/12/16	--	1
Vanadium	6010B	60	mg/kg	01/11/16	01/12/16	--	1
Zinc	6010B	130	mg/kg	01/11/16	01/12/16	--	1

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20514
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
Method Blank				Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0111161	Antimony	6010B	<1.0	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Arsenic	6010B	<0.50	mg/kg	01/11/16	01/11/16	--	1
MBSG0111161	Barium	6010B	<0.50	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Beryllium	6010B	<0.50	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Cadmium	6010B	<0.20	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Chromium	6010B	<0.50	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Cobalt	6010B	<0.50	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Copper	6010B	<2.0	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Lead	6010B	<0.50	mg/kg	01/11/16	01/11/16	--	1
MBSL0112165	Mercury	7471A	<0.10	mg/kg	01/12/16	01/14/16	--	1
MBSG0111161	Molybdenum	6010B	<1.0	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Nickel	6010B	<0.50	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Selenium	6010B	<1.0	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Silver	6010B	<0.50	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Thallium	6010B	<2.0	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Vanadium	6010B	<0.50	mg/kg	01/11/16	01/12/16	--	1
MBSG0111161	Zinc	6010B	<2.0	mg/kg	01/11/16	01/12/16	--	1

QA/QC Report
for
Extactable Fuel Hydrocarbons (EPA 8015B/8015M)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction: 1/12/2016
Date of Analysis: 1/12/2016
Dup Date of Analysis: 1/12/2016
Laboratory Sample #: 20511-004
MS/MSD Qualifiers: None
Reference #: PEI 20514

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
EFH as Diesel	0.00	1000	1190	1190	119	119	0	70-152	20	☐

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Octacosane	111	113	☐

LCS	LCSD	Qual
110	112	☐

ACP % RC
66-155

Laboratory Control Sample

Date of Extraction: 1/12/2016
Date of Analysis: 1/12/2016
Dup Date of Analysis: 1/12/2016
Laboratory Sample #: JB0112162
LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
EFH as Diesel	1000	1150	1130	115	113	2	70-130	20	☐

QA/QC Report
for
Volatile Fuel Hydrocarbons (EPA 8015B)

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction: 1/12/2016
Date of Analysis: 1/12/2016
Dup Date of Analysis: 1/12/2016
Laboratory Sample #: 20517-002
MS/MSD Qualifiers: None
Reference #: PEI 20514

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
VFH as Gasoline	0.00	0.250	0.206	0.193	82	77	7	38-146	34	

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual	LCS	LCSD	Qual	ACP % RC
α-α-α-Trifluorotoluene	86	81		92	83		51-130

Laboratory Control Sample

Date of Extraction: 1/12/2016
Date of Analysis: 1/12/2016
Dup Date of Analysis: 1/12/2016
Laboratory Sample #: JB0112161
LCS Qualifiers: None

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
VFH as Gasoline	0.250	0.215	0.208	86	83	3	47-134	32	

QA/QC Report
for
Organochlorinated Pesticides (EPA 8081A)

Reporting units: ppb

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Date of Extraction: 1/9/2016
Date of Analysis: 1/11/2016
Dup Date of Analysis: 1/11/2016
Laboratory Sample #: 20512-067
MS/MSD Qualifiers: M2, R2,
Reference #: PEI 20514

Analyte	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Gamma-BHC	0.00	20.0	0.0100	0.0800	0	0	156	34-130	31	☑
Heptachlor	0.00	20.0	1.80	3.50	9	17	64	27-138	31	☑
Aldrin	0.00	20.0	2.90	4.20	15	21	37	32-127	31	☑
Dieldrin	0.00	50.0	0.00	0.0200	0	0	200	32-144	30	☑
Endrin	0.00	50.0	0.310	0.120	1	0	88	30-154	30	☑
DDT	0.00	50.0	0.490	3.30	1	7	148	33-153	29	☑

Surrogate Recoveries for Spike Samples

Surrogate (%RC)	MS	MSD	Qual
Decachlorobiphenyl	45	46	☐

LCS	LCSD	Qual
110	87	☐

ACP % RC
35-158

Laboratory Control Sample

Date of Extraction: 1/9/2016
Date of Analysis: 1/11/2016
Dup Date of Analysis: 1/11/2016
Laboratory Sample #: VU0109161
LCS Qualifiers: R2,

Analyte	SPC CONC	LCS	LCSD	%LCS	%LCSD	RPD	ACP %LCS	ACP RPD	Qual
Gamma-BHC	20.0	20.0	16.0	100	80	22	42-130	27	☐
Heptachlor	20.0	20.0	16.0	100	80	22	38-132	27	☐
Aldrin	20.0	20.0	15.0	100	75	29	43-130	27	☑
Dieldrin	50.0	49.0	41.0	98	82	18	44-130	24	☐
Endrin	50.0	57.0	45.0	114	90	24	45-136	25	☐
DDT	50.0	57.0	46.0	114	92	21	45-137	24	☐

QA/QC Report
for
Metals

Reference #: PEI 20514 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6010B/7471A**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Antimony	1/11/2016	1/12/2016	1/12/2016	20507-078	0.00	20.0	5.67	5.19	28	26	9	75-125	20	M2,
Arsenic	1/11/2016	1/11/2016	1/11/2016	20507-078	8.00	20.0	26.2	26.2	91	91	0	75-125	20	--
Barium	1/11/2016	1/12/2016	1/12/2016	20507-078	190	20.0	160	192	0	10	18	75-125	20	M3,
Beryllium	1/11/2016	1/12/2016	1/12/2016	20507-078	0.00	20.0	19.9	19.5	100	98	2	75-125	20	--
Cadmium	1/11/2016	1/12/2016	1/12/2016	20507-078	0.660	20.0	19.7	19.7	95	95	0	75-125	20	--
Chromium	1/11/2016	1/12/2016	1/12/2016	20507-078	21.0	20.0	35.1	38.1	70	85	8	75-125	20	M3,
Cobalt	1/11/2016	1/12/2016	1/12/2016	20507-078	27.0	20.0	41.8	38.3	74	56	9	75-125	20	M3,
Copper	1/11/2016	1/12/2016	1/12/2016	20507-078	21.0	20.0	38.8	40.8	89	99	5	75-125	20	--
Lead	1/11/2016	1/11/2016	1/11/2016	20507-078	22.0	20.0	37.4	31.4	77	47	17	75-125	20	M3,
Molybdenum	1/11/2016	1/12/2016	1/12/2016	20507-078	0.00	20.0	18.6	18.1	93	91	3	75-125	20	--
Nickel	1/11/2016	1/12/2016	1/12/2016	20507-078	17.0	20.0	31.2	33.0	71	80	6	75-125	20	M3,
Selenium	1/11/2016	1/12/2016	1/12/2016	20507-078	0.00	20.0	19.0	19.2	95	96	1	75-125	20	--
Silver	1/11/2016	1/12/2016	1/12/2016	20507-078	0.00	20.0	18.8	18.7	94	94	1	75-125	20	--
Thallium	1/11/2016	1/12/2016	1/12/2016	20507-078	0.00	20.0	17.7	17.4	89	87	2	75-125	20	--
Vanadium	1/11/2016	1/12/2016	1/12/2016	20507-078	44.0	20.0	57.4	62.7	67	94	9	75-125	20	M3,
Zinc	1/11/2016	1/12/2016	1/12/2016	20507-078	57.0	20.0	64.9	68.8	40	59	6	75-125	20	M3,
Mercury	1/12/2016	1/14/2016	1/14/2016	20507-078	0.00	1.00	1.10	1.08	110	108	2	80-120	20	--

QA/QC Report
for
Metals

Reference #: PEI 20514

Reporting units: ppm

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Antimony	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	20.1	20.1	100	100	0	80-120	20	--
Arsenic	1/11/2016	1/11/2016	1/11/2016	SG0111161	20.0	19.3	19.3	96	96	0	80-120	20	--
Barium	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	20.2	20.3	101	101	0	80-120	20	--
Beryllium	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	19.8	20.1	99	100	2	80-120	20	--
Cadmium	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	19.4	19.6	97	98	1	80-120	20	--
Chromium	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	19.6	19.7	98	99	1	80-120	20	--
Cobalt	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	19.1	19.1	96	96	0	80-120	20	--
Copper	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	21.8	22.0	109	110	1	80-120	20	--
Lead	1/11/2016	1/11/2016	1/11/2016	SG0111161	20.0	20.7	20.4	104	102	1	80-120	20	--
Molybdenum	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	20.9	21.0	104	105	0	80-120	20	--
Nickel	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	20.2	20.8	101	104	3	80-120	20	--
Selenium	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	18.8	19.4	94	97	3	80-120	20	--
Silver	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	19.2	19.3	96	96	1	80-120	20	--
Thallium	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	19.6	19.5	98	98	1	80-120	20	--
Vanadium	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	19.7	19.8	99	99	1	80-120	20	--
Zinc	1/11/2016	1/12/2016	1/12/2016	SG0111161	20.0	20.9	21.0	104	105	0	80-120	20	--
Mercury	1/12/2016	1/14/2016	1/14/2016	SL0112165	1.00	1.11	1.10	111	110	1	80-120	20	--

Data Qualifier Definitions

Qualifier

D1 = Sample required dilution due to matrix.

M2 = Matrix spike recovery was low, the associated blank spike recovery was acceptable.

20507-078	6010B	Antimony	MS/MSD
20512-067	8081A	Aldrin	MS/MSD
20512-067	8081A	DDT	MS/MSD
20512-067	8081A	Dieldrin	MS/MSD
20512-067	8081A	Endrin	MS/MSD
20512-067	8081A	Gamma-BHC	MS/MSD
20512-067	8081A	Heptachlor	MS/MSD

M3 = The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to spike level. The associated blank spike recovery was acceptable.

20507-078	6010B	Barium	MS/MSD
20507-078	6010B	Chromium	MS
20507-078	6010B	Cobalt	MS/MSD
20507-078	6010B	Lead	MSD
20507-078	6010B	Nickel	MS
20507-078	6010B	Vanadium	MS
20507-078	6010B	Zinc	MS/MSD

R2 = RPD/RSD exceeded the laboratory acceptance limit.

20512-067	8081A	Aldrin	MS/MSD
20512-067	8081A	DDT	MS/MSD
20512-067	8081A	Dieldrin	MS/MSD
20512-067	8081A	Endrin	MS/MSD
20512-067	8081A	Gamma-BHC	MS/MSD
20512-067	8081A	Heptachlor	MS/MSD
VU0109161	8081A	Aldrin	LCS/LCSD

S1 = Surrogate recovery was above laboratory acceptance limits.

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Orange Coast Analytical

From: "Crozier, Carrie" <Carrie.Crozier@parsons.com>
Date: Friday, January 08, 2016 7:18 PM
To: "Orange Coast Analytical" <ocalab@sbcglobal.net>
Subject: Re: Missing samples

See below:
Also, no samples coming in tomorrow, our equipment broke and we will finish up on 1/18.

Sent from my iPhone

On Jan 8, 2016, at 6:51 PM, Orange Coast Analytical <ocalab@sbcglobal.net> wrote:

> Hello Carrie,
>
> We do not have 2 samples that were on the COC:
> E4-1.0 not collected, no sample
>
> A2-2.0 not collected, no sample
>
> Also we have a sample that was not included on the COC:
>
> DRUM 1 sample time 1447
> It was on its own sheet, and I forgot to hand it off with the sample. I'll send you a scan of it Monday. Please analyze Drum1 for TPHg TPHd and TPHo, title 22 metals, lead, arsenic, and OCPs on standard turn around. Also, please separate this one out so it is on its own lab report.
>
> Please advise,
>
> Thank you,
>
> Miriam

ORANGE COAST ANALYTICAL, INC.
3002 Dow Ave. Ste. 532 Tustin, CA, 92780
Office: 714-832-0064 Fax: 714-832-0067
ocalab@sbcglobal.net

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<20160108182135320.pdf>

Analysis Request and Chain of Custody Record

Lab Job No: 20514
Page 1 of 1

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: STANDARD
~~48hr OCPs, 72hr Pb/As~~

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081	TPHG	TPHD	TPHO	Title 22 metals			REMARKS / PRECAUTIONS
DRUM-1	1	1/8/16	14:47	S	X	X	X	X	X	X	X			

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/8/16 1507		
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCAL [signature]	Date/Time: 1/8/16 1507

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact ✓
On Ice 3 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Sample Receipt Report

Labratory Reference **PEI 20514** Logged in by MM

Received:	01/08/16 13:07	Company Name:	Parsons Environment & Infrastructure,
Method of Shipment:	Lab Pick-Up	Project Manager:	Ms. Carrie Crozier
Shipping Container:	Cooler	Project Name:	93rd Street Elementary School- LAUS
# Shipping Containers:	1	Project #:	

Sample Quantity
1 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Temperature	3°C		
Shipping Intact	Yes ☐	N/A ☑	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20558
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	1/19/2016
Date Reported:	1/21/2016
Chain of Custody Received:	☑
Analytical Method:	6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4S-0.5	20558-001	1/19/2016	1/18/2016	Soil
B4S-1.0	20558-002	1/19/2016	1/18/2016	Soil
B4S2-0.5	20558-003	1/19/2016	1/18/2016	Soil
B4S2-1.0	20558-004	1/19/2016	1/18/2016	Soil
B4S2-1.5	20558-005	1/19/2016	1/18/2016	Soil
B4S2-2.0	20558-006	1/19/2016	1/18/2016	Soil
B4S2-2.0D	20558-007	1/19/2016	1/18/2016	Soil
B4S2-2.5	20558-008	1/19/2016	1/18/2016	Soil
B4S2-3.0	20558-009	1/19/2016	1/18/2016	Soil
B4W-0.5	20558-010	1/19/2016	1/18/2016	Soil
B4W-1.0	20558-011	1/19/2016	1/18/2016	Soil
B4W-1.5	20558-012	1/19/2016	1/18/2016	Soil
B4W-2.0	20558-013	1/19/2016	1/18/2016	Soil
B4W-2.5	20558-014	1/19/2016	1/18/2016	Soil
B4W-3.0	20558-015	1/19/2016	1/18/2016	Soil
B4N-0.5	20558-016	1/19/2016	1/18/2016	Soil
B4N-0.5D	20558-017	1/19/2016	1/18/2016	Soil
B4N-1.0	20558-018	1/19/2016	1/18/2016	Soil
B4N-1.5	20558-019	1/19/2016	1/18/2016	Soil
B4N-2.0	20558-020	1/19/2016	1/18/2016	Soil
B4N-2.5	20558-021	1/19/2016	1/18/2016	Soil
B4N-3.0	20558-022	1/19/2016	1/18/2016	Soil
B4E-0.5	20558-023	1/19/2016	1/18/2016	Soil
B4E-1.0	20558-024	1/19/2016	1/18/2016	Soil
B4E-1.5	20558-025	1/19/2016	1/18/2016	Soil
B4E-2.0	20558-026	1/19/2016	1/18/2016	Soil
B4E-2.5	20558-027	1/19/2016	1/18/2016	Soil
B4E-3.0	20558-028	1/19/2016	1/18/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4S2-0.5	20558-003	1/19/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	60	mg/kg	01/20/16	01/20/16	--	1

B4W-0.5	20558-010	1/19/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	19	mg/kg	01/20/16	01/20/16	--	1

B4N-0.5	20558-016	1/19/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	17	mg/kg	01/20/16	01/20/16	--	1

B4E-0.5	20558-023	1/19/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	21	mg/kg	01/20/16	01/20/16	--	1

Method Blank	Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0120161	Arsenic	6010B	<0.50	mg/kg	01/20/16	01/20/16	--	1

QA/QC Report
for
Metals

Reference #: PEI 20558 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6010B**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Arsenic	1/20/2016	1/20/2016	1/20/2016	AZ9886-001	0.00	20.0	19.6	19.8	98	99	1	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Arsenic	1/20/2016	1/20/2016	1/20/2016	SG0120161	20.0	20.0	19.8	100	99	1	80-120	20	--

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record

Lab Job No: 20558
Page 1 of 2

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Phoenix, AZ 85040
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CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081						REMARKS / PRECAUTIONS
B4S-0.5	1	1/18/16	0814	S									Hold
B4S-1.0	1	1/18/16	0817	S									Hold
B4S2-0.5	1	1/18/16	0953	S									Hold
B4S2-1.0	1	1/18/16	0958	S									Hold
B4S2-1.5	1	1/18/16	1002	S									Hold
B4S2-2.0	1	1/18/16	1009	S									Hold
B4S2-2.0D	1	1/18/16	1011	S									Hold
B4S2-2.5	1	1/18/16	1030	S									Hold
B4S2-3.0	1	1/18/16	1034	S									Hold
B4W-0.5	1	1/18/16	1050	S		X							
B4W-1.0	1	1/18/16	1054	S									Hold
B4W-1.5	1	1/18/16	1056	S									Hold
B4W-2.0	1	1/18/16	1106	S									Hold
B4W-2.5	1	1/18/16	1127	S									Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
G. Gj	1/18/16 1430	FedEx	1/18/16 1430
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCACA	Date/Time: 1/18/16 1030

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20558
Page 2 of 2

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
3002 Dow, Suite 532
Tustin, CA 92780
(714) 832-0064 Fax (714) 832-0067

4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

ANAYSIS / CONTAINER / PRESERVATIVE

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
B4W-3.0	1	1/18/16	1131	S										Hold
B4N-0.5	1	1/18/16	1140	S		X								
B4N-0.5 D	1	1/18/16	1141	S										Hold
B4N-1.0	1	1/18/16	1146	S										Hold
B4N-1.5	1	1/18/16	1149	S										Hold
B4N-2.0	1	1/18/16	1159	S										Hold
B4N-2.5	1	1/18/16	1208	S										Hold
B4N-3.0	1	1/18/16	1211	S										Hold
B4E-0.5	1	1/18/16	1223	S		X								
B4E-1.0	1	1/18/16	1227	S										Hold
B4E-1.5	1	1/18/16	1234	S										Hold
B4E-2.0	1	1/18/16	1237	S										Hold
B4E-2.5	1	1/18/16	1246	S										Hold
B4E-3.0	1	1/18/16	1250	S										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/18/16 1430	FedEx	1/18/16 1430
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCACA [signature]	Date/Time: 1/18/16 1030

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Sample Receipt Report

Labratory Reference **PEI 20558**

Logged in by MM

Received:	01/19/16 14:30	Company Name:	Parsons Environment & Infrastructure,
Method of Shipment:	FEDEX	Project Manager:	Ms. Carrie Crozier
Shipping Container:	Cooler	Project Name:	93rd Street Elementary School- LAUS
# Shipping Containers:	1	Project #:	

Sample Quantity
28 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Temperature	2°C		
Shipping Intact	Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20558A
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	1/25/2016
Date Reported:	1/26/2016
Chain of Custody Received:	☑
Analytical Method:	6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4S-0.5	20558-001	1/25/2016	1/18/2016	Soil
B4S2-1.0	20558-004	1/25/2016	1/18/2016	Soil
B4W-1.0	20558-011	1/25/2016	1/18/2016	Soil
B4N-1.0	20558-018	1/25/2016	1/18/2016	Soil
B4E-1.0	20558-024	1/25/2016	1/18/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4S-0.5	20558-001	1/25/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	10	mg/kg	01/25/16	01/26/16	--	1

B4S2-1.0	20558-004	1/25/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	5.3	mg/kg	01/25/16	01/26/16	--	1

B4W-1.0	20558-011	1/25/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	3.5	mg/kg	01/25/16	01/26/16	--	1

B4N-1.0	20558-018	1/25/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	6.1	mg/kg	01/25/16	01/26/16	--	1

B4E-1.0	20558-024	1/25/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	2.7	mg/kg	01/25/16	01/26/16	--	1

Method Blank	Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0125161	Arsenic	6010B	<0.50	mg/kg	01/25/16	01/26/16	--	1

QA/QC Report
for
Metals

Reference #: PEI 20558A

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6010B**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Arsenic	1/25/2016	1/26/2016	1/26/2016	20596-001	1.70	20.0	20.6	20.6	94	94	0	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Arsenic	1/25/2016	1/26/2016	1/26/2016	SG0125161	20.0	19.7	19.9	99	100	1	80-120	20	--

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Orange Coast Analytical

From: "Crozier, Carrie" <Carrie.Crozier@parsons.com>
Date: Monday, January 25, 2016 9:52 AM
To: "Orange Coast Analytical" <ocalab@sbcglobal.net>; "Mark Noorani" <markn@ocalab.com>
Subject: RE: Report and Invoice-PEI 20558 93rd Street Elementary School- LAUSD

Hello,

From the 93rd St ES project samples on hold, I'd like to run the following samples for Arsenic by EPA Method 6010 on 72 hour turn around:

B4S-0.5 -001
B4S2-1.0 -004
B4N-1.0 -018
B4W-1.0 -011
B4E-1.0 -024

Thanks!
Carrie Crozier
Phone – 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

From: Orange Coast Analytical [mailto:ocalab@sbcglobal.net]
Sent: Friday, January 22, 2016 10:30 AM
To: Crozier, Carrie
Subject: Re: Report and Invoice-PEI 20558 93rd Street Elementary School- LAUSD

Give me a few minutes

ORANGE COAST ANALYTICAL, INC.
3002 Dow Ave. Ste. 532 Tustin, CA, 92780
Office: 714-832-0064 Fax: 714-832-0067
ocalab@sbcglobal.net

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From: Crozier, Carrie
Sent: Friday, January 22, 2016 9:59 AM
To: Orange Coast Analytical
Subject: RE: Report and Invoice-PEI 20558 93rd Street Elementary School- LAUSD

Can you provide an excel table with these results?

Thanks!

Carrie Crozier
Phone – 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

From: Orange Coast Analytical [mailto:ocalab@sbcglobal.net]

Analysis Request and Chain of Custody Record

Lab Job No: 20558
Page 1 of 2

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

ANAYSIS / CONTAINER / PRESERVATIVE

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
B4S-0.5	1	1/18/16	0814	S										Hold
B4S-1.0	1	1/18/16	0817	S										Hold
B4S2-0.5	1	1/18/16	0953	S										Hold
B4S2-1.0	1	1/18/16	0958	S										Hold
B4S2-1.5	1	1/18/16	1002	S										Hold
B4S2-2.0	1	1/18/16	1009	S										Hold
B4S2-2.0D	1	1/18/16	1011	S										Hold
B4S2-2.5	1	1/18/16	1030	S										Hold
B4S2-3.0	1	1/18/16	1034	S										Hold
B4W-0.5	1	1/18/16	1050	S		X								
B4W-1.0	1	1/18/16	1054	S										Hold
B4W-1.5	1	1/18/16	1056	S										Hold
B4W-2.0	1	1/18/16	1106	S										Hold
B4W-2.5	1	1/18/16	1127	S										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/18/16 1430	FedEx	1/18/16 1430
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCACA [signature]	Date/Time: 1/18/16 1830

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20558
Page 2 of 2

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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4620 E. Elwood, Suite 4
Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
B4W-3.0	1	1/18/16	1131	S										Hold
B4N-0.5	1	1/18/16	1140	S		X								
B4N-0.5D	1	1/18/16	1141	S										Hold
B4N-1.0	1	1/18/16	1146	S										Hold
B4N-1.5	1	1/18/16	1149	S										Hold
B4N-2.0	1	1/18/16	1159	S										Hold
B4N-2.5	1	1/18/16	1208	S										Hold
B4N-3.0	1	1/18/16	1211	S										Hold
B4E-0.5	1	1/18/16	1223	S		X								
B4E-1.0	1	1/18/16	1227	S										Hold
B4E-1.5	1	1/18/16	1234	S										Hold
B4E-2.0	1	1/18/16	1237	S										Hold
B4E-2.5	1	1/18/16	1246	S										Hold
B4E-3.0	1	1/18/16	1250	S										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/18/16 1430	FedEx	1/18/16 1430
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCACA [signature]	Date/Time: 1/18/16 1030

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Sample Receipt Report

Labratory Reference **PEI 20558**

Logged in by MM

Received:	01/19/16 14:30	Company Name:	Parsons Environment & Infrastructure,
Method of Shipment:	FEDEX	Project Manager:	Ms. Carrie Crozier
Shipping Container:	Cooler	Project Name:	93rd Street Elementary School- LAUS
# Shipping Containers:	1	Project #:	

Sample Quantity
28 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Temperature	2°C		
Shipping Intact	Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

Orange Coast Analytical, Inc.
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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20558B
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	1/26/2016
Date Reported:	2/3/2016
Chain of Custody Received:	☑
Analytical Method:	6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558B
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558B
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4S2-0.5	20558-003	1/26/2016	1/18/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20558B
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4S2-0.5	20558-003	1/26/2016	1/18/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
STLC Arsenic	6010B	0.15	mg/L	02/01/16	02/02/16	--	1

Method Blank — Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0201162	STLC Arsenic	6010B	<0.050	mg/L	02/01/16	02/02/16	--	1

QA/QC Report
for
Metals

Reference #: PEI 20558B

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

STLC CCR

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
STLC Arsenic	2/1/2016	2/2/2016	2/2/2016	20558-003	0.150	1.00	1.25	1.17	110	102	7	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
STLC Arsenic	2/1/2016	2/2/2016	2/2/2016	SG0201162	1.00	0.994	1.00	99	100	1	80-120	20	--

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Hi Mark,
I'd like you to run the sample B4S2-0.5 for STLC for Arsenic. Standard Turn around please.

Thanks!

Carrie Crozier
Phone – 626.440.2747 Cell - 626.482.6088
Carrie.Crozier@Parsons.com

Analysis Request and Chain of Custody Record

Lab Job No: 20558
Page 1 of 2

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

ANAYSIS / CONTAINER / PRESERVATIVE

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
B4S-0.5	1	1/18/16	0814	S										Hold
B4S-1.0	1	1/18/16	0817	S										Hold
B4S2-0.5	1	1/18/16	0953	S										Hold
B4S2-1.0	1	1/18/16	0958	S										Hold
B4S2-1.5	1	1/18/16	1002	S										Hold
B4S2-2.0	1	1/18/16	1009	S										Hold
B4S2-2.0D	1	1/18/16	1011	S										Hold
B4S2-2.5	1	1/18/16	1030	S										Hold
B4S2-3.0	1	1/18/16	1034	S										Hold
B4W-0.5	1	1/18/16	1050	S		X								
B4W-1.0	1	1/18/16	1054	S										Hold
B4W-1.5	1	1/18/16	1056	S										Hold
B4W-2.0	1	1/18/16	1106	S										Hold
B4W-2.5	1	1/18/16	1127	S										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/18/16 1430	FedEx	1/18/16 1430
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCACA [signature]	Date/Time: 1/18/16 1830

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20558
Page 2 of 2

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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
COMPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
SEND REPORT TO:	Carrie Crozier	NUMBER:	
ADDRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
EMAIL:	carrie.crozier@parsons.com	P.O. #:	449613
PHONE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 48hr OCPs, 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
B4W-3.0	1	1/18/16	1131	S										Hold
B4N-0.5	1	1/18/16	1140	S		X								
B4N-0.5D	1	1/18/16	1141	S										Hold
B4N-1.0	1	1/18/16	1146	S										Hold
B4N-1.5	1	1/18/16	1149	S										Hold
B4N-2.0	1	1/18/16	1159	S										Hold
B4N-2.5	1	1/18/16	1208	S										Hold
B4N-3.0	1	1/18/16	1211	S										Hold
B4E-0.5	1	1/18/16	1223	S		X								
B4E-1.0	1	1/18/16	1227	S										Hold
B4E-1.5	1	1/18/16	1234	S										Hold
B4E-2.0	1	1/18/16	1237	S										Hold
B4E-2.5	1	1/18/16	1246	S										Hold
B4E-3.0	1	1/18/16	1250	S										Hold

Total No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	1/18/16 1430	FedEx	1/18/16 1430
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCACA [signature]	Date/Time: 1/18/16 1030

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact ✓ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Sample Receipt Report

Labratory Reference **PEI 20558**

Logged in by MM

Received:	01/19/16 14:30	Company Name:	Parsons Environment & Infrastructure,
Method of Shipment:	FEDEX	Project Manager:	Ms. Carrie Crozier
Shipping Container:	Cooler	Project Name:	93rd Street Elementary School- LAUS
# Shipping Containers:	1	Project #:	

Sample Quantity
28 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Temperature	2°C		
Shipping Intact	Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

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4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20686
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	2/8/2016
Date Reported:	2/10/2016
Chain of Custody Received:	☑
Analytical Method:	6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20686
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20686
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4E-0.5	20686-001	2/8/2016	2/6/2016	Soil
C4E-1.0	20686-002	2/8/2016	2/6/2016	Soil
C4E-1.5	20686-003	2/8/2016	2/6/2016	Soil
C4E-2.0	20686-004	2/8/2016	2/6/2016	Soil
C4E-2.5	20686-005	2/8/2016	2/6/2016	Soil
C4E-3.0	20686-006	2/8/2016	2/6/2016	Soil
C4N-0.5	20686-007	2/8/2016	2/6/2016	Soil
C4N-1.0	20686-008	2/8/2016	2/6/2016	Soil
C4N-1.5	20686-009	2/8/2016	2/6/2016	Soil
C4N-2.0	20686-010	2/8/2016	2/6/2016	Soil
C4N-2.5	20686-011	2/8/2016	2/6/2016	Soil
C4N-3.0	20686-012	2/8/2016	2/6/2016	Soil
C4W-0.5	20686-013	2/8/2016	2/6/2016	Soil
C4W-1.0	20686-014	2/8/2016	2/6/2016	Soil
C4W-1.5	20686-015	2/8/2016	2/6/2016	Soil
C4W-2.0	20686-016	2/8/2016	2/6/2016	Soil
C4W-2.5	20686-017	2/8/2016	2/6/2016	Soil
C4W-3.0	20686-018	2/8/2016	2/6/2016	Soil
C4S-0.5	20686-019	2/8/2016	2/6/2016	Soil
C4S-1.0	20686-020	2/8/2016	2/6/2016	Soil
C4S-1.5	20686-021	2/8/2016	2/6/2016	Soil
C4S-2.0	20686-022	2/8/2016	2/6/2016	Soil
C4S-2.5	20686-023	2/8/2016	2/6/2016	Soil
C4S-3.0	20686-024	2/8/2016	2/6/2016	Soil
B4E2-0.5	20686-025	2/8/2016	2/6/2016	Soil
B4E2-1.0	20686-026	2/8/2016	2/6/2016	Soil
B4W2-0.5	20686-027	2/8/2016	2/6/2016	Soil
B4W2-1.0	20686-028	2/8/2016	2/6/2016	Soil
B4N2-0.5	20686-029	2/8/2016	2/6/2016	Soil
B4N2-1.0	20686-030	2/8/2016	2/6/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20686
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4E-2.0	20686-004	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Lead	6010B	27	mg/kg	02/08/16	02/08/16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4N-2.0	20686-010	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Lead	6010B	91	mg/kg	02/08/16	02/08/16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4W-2.0	20686-016	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Lead	6010B	24	mg/kg	02/08/16	02/08/16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4S-2.0	20686-022	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Lead	6010B	28	mg/kg	02/08/16	02/08/16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4E2-0.5	20686-025	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	2.6	mg/kg	02/08/16	02/08/16	--	1

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4W2-0.5	20686-027	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	8.0	mg/kg	02/08/16	02/08/16	--	1

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20686
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
B4N2-0.5	20686-029	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	21	mg/kg	02/08/16	02/08/16	--	1

Method Blank — Soil

MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBSG0208161	Arsenic	6010B	<0.50	mg/kg	02/08/16	02/08/16	--	1
MBSG0208161	Lead	6010B	<0.50	mg/kg	02/08/16	02/08/16	--	1

QA/QC Report
for
Metals

Reference #: PEI 20686 Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6010B**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Arsenic	2/8/2016	2/8/2016	2/8/2016	AZ9917-001	1.30	20.0	20.6	21.4	97	100	4	75-125	20	--
Lead	2/8/2016	2/8/2016	2/8/2016	AZ9917-001	0.00	20.0	20.5	21.3	102	106	4	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Arsenic	2/8/2016	2/8/2016	2/8/2016	SG0208161	20.0	20.2	19.9	101	100	1	80-120	20	--
Lead	2/8/2016	2/8/2016	2/8/2016	SG0208161	20.0	20.7	20.3	104	101	2	80-120	20	--

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record

Lab Job No: 20686
Page 1 of 3

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CUSTOMER INFORMATION		PROJECT INFORMATION	
PANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
D REPORT TO:	Carrie Crozier	NUMBER:	
RESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
IL:	carrie.crozier@parsons.com	P.O. #:	449613
NE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

ANAYSIS / CONTAINER / PRESERVATIVE

REQUIRED TAT: 72hr Pb/As

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
1 C4E-0.5	1	2/6/16	0810	SS	X									Hold
2 C4E-1.0	1		0814		X									Hold
3 C4E-1.5	1		0822		X									Hold
4 C4E-2.0	1		0831		X									
5 C4E-2.5	1		0844		X									Hold
6 C4E-3.0	1		1005		X									Hold
7 C4N-0.5	1		0909		X									Hold
8 C4N-1.0	1		0916		X									Hold
9 C4N-1.5	1		0950		X									Hold
10 C4N-2.0	1		1013		X									
11 C4N-2.5	1		1023		X									Hold
12 C4N-3.0	1		1035		X									Hold
13 C4W-0.5	1		0945		X									Hold
14 C4W-1.0	1		1020		X									Hold

tal No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

linquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/6/16 1400	FedEx	2/6/16 1400
linquished By:	Date/Time:	Received By:	Date/Time:
linquished By:	Date/Time:	Received For Lab By: OCACA [signature]	Date/Time: 2/8/16 0830

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20686
Page 2 of 3

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CUSTOMER INFORMATION		PROJECT INFORMATION	
MPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
D REPORT TO:	Carrie Crozier	NUMBER:	
RESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
IL:	carrie.crozier@parsons.com	P.O. #:	449613
NE: (626) 440-2747	FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID		NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
15	C4W-1.5	1	2/6/16	1028 ~~1044~~	SS	X									Hold
16	C4W-2.0	1		1027		X									
17	C4W-2.5	1		1028		X									Hold
18	C4W-3.0	1		1032		X									Hold
19	C4S-0.5	1		1044		X									Hold
20	C4S-1.0	1		1046		X									Hold
21	C4S-1.5	1		1101		X									Hold
22	C4S-2.0	1		1112		X									
23	C4S-2.5	1		1136		X									Hold
24	C4S-3.0	1		1137		X									Hold
25	B4E2-0.5	1		1120			X								
26	B4E2-1.0	1		1125			X								Hold
27	B4W2-0.5	1		1213			X								
28	B4W2-1.0	1		1221			X								Hold

tal No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

linquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/6/16 1400	FedEx	2/6/16 1400
linquished By:	Date/Time:	Received By:	Date/Time:
linquished By:	Date/Time:	Received For Lab By: OCAA [signature]	Date/Time: 2/8/16 0830

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20686
Page 3 of 3

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(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
MPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
ID REPORT TO:	Carrie Crozier	NUMBER:	
DRESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
AIL:	carrie.crozier@parsons.com	P.O. #:	449613
ONE: (626) 440-2747	FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
29 B4N2 -0.5	1	2/6/16	1243	SS		X								
30 B4N2-1.0	1	2/6/16	1245	SS		X								Hold

tal No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/6/16 1400	FedEx	2/6/16 1400
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCAC [signature]	Date/Time: 2/8/16 0830

Sample Matrix: DW - Drinking Water; GW - Groundwater; WW - Wastewater; SS - Soil/Solid; OT- Other

Sample Integrity: Intact _____ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Sample Receipt Report

Labratory Reference **PEI 20686** Logged in by MM

Received:	02/08/16	Company Name:	Parsons Environment & Infrastructure,
Method of Shipment:	FEDEX	Project Manager:	Ms. Carrie Crozier
Shipping Container:	Cooler	Project Name:	93rd Street Elementary School- LAUS
# Shipping Containers:	1	Project #:	

Sample Quantity
30 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Temperature	2°C		
Shipping Intact	Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____

Orange Coast Analytical, Inc.
3002 Dow, Suite 532, Tustin, CA 92780 (714) 832-0064 Fax (714) 832-0067
4620 E. Elwood, Suite 4, Phoenix, AZ 85040 (480) 736-0960 Fax (480) 736-0970

LABORATORY REPORT FORM

ORANGE COAST ANALYTICAL, INC.

3002 Dow Suite 532 Tustin, CA 92780

(714) 832-0064

Laboratory Certification (ELAP) No.: 2576
Expiration Date: 2017
Los Angeles County Sanitation District Lab ID# 10206

Laboratory Director's Name:

Mark Noorani

Client:	Parsons Environment & Infrastructure, Inc.
Laboratory Reference:	PEI 20686A
Project Name:	93rd Street Elementary School- LAUSD
Project Number:	
Date Received:	2/8/2016
Date Reported:	2/15/2016
Chain of Custody Received:	☑
Analytical Method:	6010B,

Mark Noorani, Laboratory Director

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Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20686A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Case Narrative

Sample Receipt:

All samples on the Chain of Custody were received by OCA at 2ºC, on ice.

Holding Times:

All samples were analyzed within required holding times unless otherwise noted in the data qualifier section of the report.

Analytical Methods:

Sample analysis was performed following the analytical methods listed on the cover page.

Data Qualifiers:

Within this report, data qualifiers may have been assigned to clarify deviations in common laboratory procedures or any divergence from laboratory QA/QC criteria. If a data qualifier has been used, it will appear in the back of the report along with its description. All method QA/QC criteria have been met unless otherwise noted in the data qualifier section.

Definition of Terms:

The definitions of common terms and acronyms used in the report have been placed at the back of the report to assist data users.

Comments:

None

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20686A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Client Sample Summary

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4N-2.0	20686-010	2/8/2016	2/6/2016	Soil
C4N-2.5	20686-011	2/8/2016	2/6/2016	Soil
B4N2-1.0	20686-030	2/8/2016	2/6/2016	Soil

Ms. Carrie Crozier
Parsons Environment & Infrastructure, Inc.
100 W. Walnut St
Pasadena, CA, 91124

Lab Reference #: PEI 20686A
Project Name: 93rd Street Elementary School- LAUSD
Project #:

Metals

Client Sample ID	Lab Sample Number	Date Received	Date Sampled	Matrix
C4N-2.5	20686-011	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Lead	6010B	4.3	mg/kg	02/12/16	02/12/16	--	1

B4N2-1.0	20686-030	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
Arsenic	6010B	4.3	mg/kg	02/12/16	02/12/16	--	1

Method Blank						Soil		
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBCT0212161	Arsenic	6010B	<0.50	mg/kg	02/12/16	02/12/16	--	1
MBCT0212161	Lead	6010B	<0.50	mg/kg	02/12/16	02/12/16	--	1

C4N-2.0	20686-010	2/8/2016	2/6/2016	Soil

ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
STLC Lead	6010B	0.79	mg/L	02/14/16	02/15/16	--	1

Method Blank						Soil		
MB ID	ANALYTE	EPA Method	Result	Units	Date Extracted	Date Analyzed	Qual	DF
MBIR0214163	STLC Lead	6010B	<0.20	mg/L	02/14/16	02/15/16	--	1

QA/QC Report
for
Metals

Reference #: PEI 20686A

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD) **6010B**

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
Arsenic	2/12/2016	2/12/2016	2/12/2016	20687-072	2.60	20.0	21.9	22.2	96	98	1	75-125	20	--
Lead	2/12/2016	2/12/2016	2/12/2016	20687-072	1.60	20.0	21.1	21.1	98	98	0	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
Arsenic	2/12/2016	2/12/2016	2/12/2016	CT0212161	20.0	19.0	19.4	95	97	2	80-120	20	--
Lead	2/12/2016	2/12/2016	2/12/2016	CT0212161	20.0	19.6	19.8	98	99	1	80-120	20	--

QA/QC Report
for
Metals

Reference #: PEI 20686A

Reporting units: ppm

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

STLC CCR

Analyte	Date of Extraction	MS Date of Analysis	MSD Date of Analysis	Laboratory Sample #	R1	SPC CONC	MS	MSD	%MS	%MSD	RPD	ACP %MS	ACP RPD	Qual
STLC Lead	2/14/2016	2/15/2016	2/15/2016	20622-003	0.890	1.00	1.80	1.93	91	104	7	75-125	20	--

Laboratory Control Sample

Analyte	Date of Extraction	LCS Date of Analysis	LCSD Date of Analysis	Laboratory Sample #	SPC CONC	LCS	LCSD	%LCS	% LCSD	RPD	ACP %LCS	ACP RPD	Qual
STLC Lead	2/14/2016	2/15/2016	2/15/2016	IR0214163	1.00	1.00	1.01	100	101	1	80-120	20	--

Definition of terms:

R1	Result of unspiked laboratory sample used for matrix spike determination.
SP CONC (or Spike Conc.)	Spike concentration added to sample or blank
MS	Matrix Spike sample result
MSD	Matrix Spike Duplicate sample result
%MS	Percent recovery of MS: {(MS-R1) / SP CONC} x100
%MSD	Percent recovery of MSD: {(MSD-R1) / SP CONC} x 100
RPD (for MS/MSD)	Relative Percent Difference: {(MS-MSD) / (MS+MSD)} x 100 x 2
LCS	Laboratory Control Sample result
LCSD	Laboratory Control Sample Duplicate result
%LCS	Percent recovery of LCS: {(LCS) / SP CONC} x100
%LCSD	Percent recovery of LCSD: {(LCSD) / SP CONC} x 100
RPD (for LCS/LCSD)	Relative Percent Difference: {(LCS-LCSD) / (LCS+LCSD)} x 100 x 2
ACP %LCS	Acceptable percent recovery range for Laboratory Control Samples.
ACP %MS	Acceptable percent recovery range for Matrix Spike samples
ACP RPD	Acceptable Relative Percent Difference
D	Detectable, result must be greater than zero
Qual	A checked box indicates a data qualifier was utilized and/or required for this analyte see attached explanation.
ND	Analyte Not Detected

Analysis Request and Chain of Custody Record

Lab Job No: 20686
Page 1 of 3

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
IPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
D REPORT TO:	Carrie Crozier	NUMBER:	
RESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
IL:	carrie.crozier@parsons.com	P.O. #:	449613
NE:	(626) 440-2747 FAX:	SAMPLED BY:	C. Crozier

ANAYSIS / CONTAINER / PRESERVATIVE

REQUIRED TAT: 72hr Pb/As

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
1	C4E-0.5	1	2/6/16	0810	SS	X									Hold
2	C4E-1.0	1		0814		X									Hold
3	C4E-1.5	1		0822		X									Hold
4	C4E-2.0	1		0831		X									
5	C4E-2.5	1		0844		X									Hold
6	C4E-3.0	1		1005		X									Hold
7	C4N-0.5	1		0909		X									Hold
8	C4N-1.0	1		0916		X									Hold
9	C4N-1.5	1		0950		X									Hold
10	C4N-2.0	1		1013		X									
11	C4N-2.5.	1		1023		X									Hold
12	C4N-3.0	1		1035		X									Hold
13	C4W-0.5	1		0945		X									Hold
14	C4W-1.0	1		1020		X									Hold

tal No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

linquished By: [signature]	Date/Time: 2/6/16 1400	Received By: FedEx	Date/Time: 2/6/16 1400
linquished By:	Date/Time:	Received By:	Date/Time:
linquished By:	Date/Time:	Received For Lab By: OCACA [signature]	Date/Time: 2/8/16 0830

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20686
Page 2 of 3

ORANGE COAST ANALYTICAL, INC. www.ocalab.com
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Phoenix, AZ 85040
(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
MPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
D REPORT TO:	Carrie Crozier	NUMBER:	
RESS:	100 W Walnut St	ADDRESS:	330 E. 93rd Street
	Pasadena, CA 91124		Los Angeles, CA 90003
IL:	carrie.crozier@parsons.com	P.O. #:	449613
NE: (626) 440-2747	FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

	SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
15	C4W-1.5	1	2/6/16	1028 ~~1044~~	SS	X									Hold
16	C4W-2.0	1		1027		X									
17	C4W-2.5	1		1028		X									Hold
18	C4W-3.0	1		1032		X									Hold
19	C4S-0.5	1		1044		X									Hold
20	C4S-1.0	1		1046		X									Hold
21	C4S-1.5	1		1101		X									Hold
22	C4S-2.0	1		1112		X									
23	C4S-2.5	1		1136		X									Hold
24	C4S-3.0	1		1137		X									Hold
25	B4E2-0.5	1		1120			X								
26	B4E2-1.0	1		1125			X								Hold
27	B4W2-0.5	1		1213			X								
28	B4W2-1.0	1		1221			X								Hold

tal No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

linquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/6/16 1400	FedEx	2/6/16 1400
linquished By:	Date/Time:	Received By:	Date/Time:
linquished By:	Date/Time:	Received For Lab By: OCAA [signature]	Date/Time: 2/8/16 0830

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Analysis Request and Chain of Custody Record

Lab Job No: 20686
Page 3 of 3

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(480) 736-0960 Fax (480) 736-0970

CUSTOMER INFORMATION		PROJECT INFORMATION	
MPANY:	Parsons	PROJECT NAME:	93rd Street Elementary School - LAUSD
ID REPORT TO:	Carrie Crozier	NUMBER:	
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AIL:	carrie.crozier@parsons.com	P.O. #:	449613
ONE: (626) 440-2747	FAX:	SAMPLED BY:	C. Crozier

REQUIRED TAT: 72hr Pb/As

ANAYSIS / CONTAINER / PRESERVATIVE

SAMPLE ID	NO. OF CONTAINERS	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	Lead 6010	Arsenic 6010	Organochlorine Pesticides 8081							REMARKS / PRECAUTIONS
29 B4N2 -0.5	1	2/6/16	1243	SS		X								
30 B4N2-1.0	1	2/6/16	1245	SS		X								Hold

tal No. of Samples: Method of Shipment: Preservative: 1 = Ice 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Relinquished By:	Date/Time:	Received By:	Date/Time:
[signature]	2/6/16 1400	FedEx	2/6/16 1400
Relinquished By:	Date/Time:	Received By:	Date/Time:
Relinquished By:	Date/Time:	Received For Lab By: OCAC [signature]	Date/Time: 2/8/16 0830

Sample Matrix:
DW - Drinking Water
GW - Groundwater
WW - Wastewater
SS - Soil/Solid
OT- Other

Sample Integrity:
Intact _____ On Ice 2 °C

All samples remain the property of the client who is responsible for disposal. A disposal fee may be imposed if client fails to pickup samples.

Sample Receipt Report

Labratory Reference **PEI 20686**

Logged in by MM

Received:	02/08/16	Company Name:	Parsons Environment & Infrastructure,
Method of Shipment:	FEDEX	Project Manager:	Ms. Carrie Crozier
Shipping Container:	Cooler	Project Name:	93rd Street Elementary School- LAUS
# Shipping Containers:	1	Project #:	

Sample Quantity
30 Soil

Chain of Custody	Complete ☑	Incomplete ☐	None ☐
Samples On Ice	Yes, Wet ☑	Yes, Blue ☐	No ☐
Temperature	2°C		
Shipping Intact	Yes ☑	N/A ☐	No ☐
Shipping Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Samples Intact	Yes ☑		No ☐
Sample Custody Seals Intact	Yes ☐	N/A ☑	No ☐
Custody Seals Signed & Dated	Yes ☐	N/A ☑	No ☐
Proper Test Containers	Yes ☑		No ☐
Proper Test Preservations	Yes ☑		No ☐
Samples Within Hold Times	Yes ☑		No ☐
VOAs Have Zero Headspace	Yes ☐	N/A ☑	No ☐
Sample Labels	Complete ☑	Incomplete ☐	None ☐
Sample Information Matches COC	Yes ☑	N/A ☐	No ☐

Notes

Client Notified _____ By _____ On _____