

Appendices

Appendix E *Laboratory Reports*



Appendices

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January 08, 2014

Denise Clendening
The Planning Center
2850 Inland Empire Blvd., Suite B
Ontario, CA 91764
Tel: (909) 989-4449
Fax: (909) 989-4447



Re: ATL Work Order Number : 1303936

Client Reference : High School 5, Option A Irvine, CA, ISD-28.0

Enclosed are the results for sample(s) received on December 11, 2013 by Advanced Technology Laboratories. The sample(s) are tested for the parameters as indicated on the enclosed chain of custody in accordance with applicable laboratory certifications. The laboratory results contained in this report specifically pertains to the sample(s) submitted.

Thank you for the opportunity to serve the needs of your company. If you have any questions, please feel free to contact me or your Project Manager.

Sincerely,

Eddie Rodriguez
Laboratory Director

The cover letter and the case narrative are an integral part of this analytical report and its absence renders the report invalid. Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or applicable state-specific certification programs. The report cannot be reproduced without written permission from the client and Advanced Technology Laboratories.



Certificate of Analysis

The Planning Center

2850 Inland Empire Blvd., Suite B

Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD

Report To : Denise Clendening

Reported : 01/08/2014

SUMMARY OF SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
B-48@0.5'	1303936-03	Soil	12/10/13 14:19	12/11/13 16:05
EB121013	1303936-17	Aqueous	12/10/13 15:25	12/11/13 16:05
B-1@0.5'	1303936-18	Soil	12/11/13 7:42	12/11/13 16:05
B-1@3.0'	1303936-19	Soil	12/11/13 7:44	12/11/13 16:05
B-1DUP@0.5'	1303936-20	Soil	12/11/13 7:46	12/11/13 16:05
B-5@0.5'	1303936-30	Soil	12/11/13 8:48	12/11/13 16:05
B-5@3.0'	1303936-31	Soil	12/11/13 8:50	12/11/13 16:05
B-51@0.5'	1303936-34	Soil	12/11/13 9:15	12/11/13 16:05
B-33@0.5'	1303936-42	Soil	12/11/13 10:12	12/11/13 16:05
B-41@0.5'	1303936-52	Soil	12/11/13 11:13	12/11/13 16:05
B-16@0.5'	1303936-58	Soil	12/11/13 11:36	12/11/13 16:05
B-16@3.0'	1303936-59	Soil	12/11/13 11:38	12/11/13 16:05
B-10@0.5'	1303936-60	Soil	12/11/13 11:42	12/11/13 16:05
B-10@3.0'	1303936-61	Soil	12/11/13 11:44	12/11/13 16:05
B-11@0.5'	1303936-68	Soil	12/11/13 12:44	12/11/13 16:05
B-15@0.5'	1303936-76	Soil	12/11/13 13:11	12/11/13 16:05
B-36@0.5'	1303936-88	Soil	12/11/13 13:54	12/11/13 16:05
B-38@0.5'	1303936-92	Soil	12/11/13 14:04	12/11/13 16:05
B-31@0.5'	1303936-94	Soil	12/11/13 14:12	12/11/13 16:05
B-17@0.5'	1303936-AE	Soil	12/11/13 14:39	12/11/13 16:05
B-26@0.5'	1303936-AI	Soil	12/11/13 14:50	12/11/13 16:05
EB121113	1303936-AK	Aqueous	12/11/13 15:00	12/11/13 16:05
Composite B-42, B-48, B-49	1303936-AL	Soil	12/10/13 0:00	12/11/13 16:05
Composite B-1, B-2, B-3	1303936-AM	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-1DUP, B-2DUP, B-3DU	1303936-AN	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-5, B-6, B-9, B-10	1303936-AO	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-13, B-16, B-19, B-20	1303936-AP	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-18, B-25, B-33, B-40	1303936-AQ	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-41, B-46, B-47, B-50	1303936-AR	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-4, B-7, B-8, B-11	1303936-AS	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-12, B-14, B-15, B-21	1303936-AT	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-37, B-38, B-44, B-45	1303936-AU	Soil	12/10/13 0:00	12/11/13 16:05
Composite B-29, B-30, B-36, B-43	1303936-AV	Soil	12/10/13 0:00	12/11/13 16:05
Composite B-24, B-31, B-32, B-39	1303936-AW	Soil	12/10/13 0:00	12/11/13 16:05
Composite B-17, B-22, B-23, B-28	1303936-AX	Soil	12/11/13 0:00	12/11/13 16:05
Composite B-26, B-27, B-34, B-35	1303936-AY	Soil	12/11/13 0:00	12/11/13 16:05



Certificate of Analysis

The Planning Center

2850 Inland Empire Blvd., Suite B

Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD

Report To : Denise Clendening

Reported : 01/08/2014

CASE NARRATIVE

The samples for EPA 8290 (Dioxins and Furans) analysis were subcontracted to Pace Analytical Lab with DOHS Cert. 2155.



Certificate of Analysis

The Planning Center
2850 Inland Empire Blvd., Suite B
Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-48@0.5'

Lab ID: 1303936-03

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.5	1.0	NA	1	B3L0360	12/17/2013	12/18/13 12:49	
Lead	4.0	1.0	NA	1	B3L0360	12/17/2013	12/18/13 12:49	



Certificate of Analysis

The Planning Center
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 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID EB121013

Lab ID: 1303936-17

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	ND	0.010	NA	1	B3L0340	12/17/2013	12/17/13 14:00	
Lead	ND	0.0050	NA	1	B3L0340	12/17/2013	12/17/13 14:00	

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
4,4'-DDE	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
4,4'-DDT	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Aldrin	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
alpha-BHC	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
alpha-Chlordane	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
beta-BHC	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Chlordane	ND	0.25	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
delta-BHC	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Dieldrin	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Endosulfan I	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Endosulfan II	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Endosulfan sulfate	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Endrin	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Endrin aldehyde	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Endrin ketone	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
gamma-BHC	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
gamma-Chlordane	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Heptachlor	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Heptachlor epoxide	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Methoxychlor	ND	0.25	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
Toxaphene	ND	2.5	NA	1	B3L0278	12/13/2013	12/13/13 16:11	
<i>Surrogate: Decachlorobiphenyl</i>	59.7 %		23 - 138		B3L0278	12/13/2013	12/13/13 16:11	
<i>Surrogate: Tetrachloro-m-xylene</i>	85.1 %		36 - 140		B3L0278	12/13/2013	12/13/13 16:11	



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Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-1@0.5'
Lab ID: 1303936-18

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Arsenic	2.5	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Barium	89	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Beryllium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Cadmium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Chromium	6.0	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Cobalt	3.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Copper	6.2	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Lead	4.2	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Molybdenum	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Nickel	4.1	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Selenium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Silver	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Thallium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Vanadium	23	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	
Zinc	34	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:09	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0369	12/18/2013	12/18/13 13:04	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:19	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:19	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:19	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:19	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:19	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:19	
<i>Surrogate: p-Terphenyl</i>	95.2 %		55 - 153		B3L0331	12/16/2013	12/17/13 02:19	



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Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-1@0.5'

Lab ID: 1303936-18

Polychlorinated Biphenyls by EPA 8082

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
Aroclor 1221	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
Aroclor 1232	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
Aroclor 1242	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
Aroclor 1248	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
Aroclor 1254	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
Aroclor 1260	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
Aroclor 1262	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
Aroclor 1268	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:26	
<i>Surrogate: Decachlorobiphenyl</i>	105 %		16 - 152		B3L0329	12/16/2013	12/17/13 14:26	
<i>Surrogate: Tetrachloro-m-xylene</i>	92.6 %		38 - 131		B3L0329	12/16/2013	12/17/13 14:26	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Acenaphthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Acenaphthylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Benzo(a)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Benzo(a)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Chrysene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Fluorene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Naphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Phenanthrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
Pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:13	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	56.9 %		28 - 96		B3L0350	12/17/2013	12/17/13 21:13	
<i>Surrogate: 2-Fluorobiphenyl</i>	74.3 %		36 - 113		B3L0350	12/17/2013	12/17/13 21:13	
<i>Surrogate: Nitrobenzene-d5</i>	49.0 %		29 - 106		B3L0350	12/17/2013	12/17/13 21:13	
<i>Surrogate: 4-Terphenyl-d14</i>	71.6 %		39 - 138		B3L0350	12/17/2013	12/17/13 21:13	



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 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-1DUP@0.5'
Lab ID: 1303936-20

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Arsenic	2.5	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Barium	83	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Beryllium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Cadmium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Chromium	5.6	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Cobalt	3.2	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Copper	6.2	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Lead	4.2	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Molybdenum	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Nickel	4.1	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Selenium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Silver	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Thallium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Vanadium	23	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	
Zinc	35	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:11	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0369	12/18/2013	12/18/13 13:14	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:36	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:36	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:36	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:36	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:36	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:36	
<i>Surrogate: p-Terphenyl</i>	<i>92.2 %</i>		<i>55 - 153</i>		B3L0331	12/16/2013	<i>12/17/13 02:36</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-1DUP@0.5'
Lab ID: 1303936-20

Polychlorinated Biphenyls by EPA 8082

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
Aroclor 1221	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
Aroclor 1232	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
Aroclor 1242	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
Aroclor 1248	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
Aroclor 1254	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
Aroclor 1260	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
Aroclor 1262	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
Aroclor 1268	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 14:57	
<i>Surrogate: Decachlorobiphenyl</i>	<i>111 %</i>		<i>16 - 152</i>		B3L0329	12/16/2013	<i>12/17/13 14:57</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>93.3 %</i>		<i>38 - 131</i>		B3L0329	12/16/2013	<i>12/17/13 14:57</i>	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Acenaphthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Acenaphthylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Benzo(a)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Benzo(a)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Chrysene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Fluorene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Naphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Phenanthrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
Pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 21:41	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>57.7 %</i>		<i>28 - 96</i>		B3L0350	12/17/2013	<i>12/17/13 21:41</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>76.2 %</i>		<i>36 - 113</i>		B3L0350	12/17/2013	<i>12/17/13 21:41</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>54.3 %</i>		<i>29 - 106</i>		B3L0350	12/17/2013	<i>12/17/13 21:41</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>73.2 %</i>		<i>39 - 138</i>		B3L0350	12/17/2013	<i>12/17/13 21:41</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-5@0.5'
Lab ID: 1303936-30

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Arsenic	1.8	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Barium	69	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Beryllium	ND	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Cadmium	ND	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Chromium	4.8	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Cobalt	2.5	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Copper	5.1	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Lead	3.7	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Molybdenum	ND	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Nickel	3.2	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Selenium	ND	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Silver	ND	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Thallium	ND	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Vanadium	19	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	
Zinc	26	0.99	NA	1	B3L0360	12/17/2013	12/18/13 13:12	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0369	12/18/2013	12/18/13 13:16	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:02	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:02	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:02	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:02	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:02	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 02:02	
<i>Surrogate: p-Terphenyl</i>	95.2 %		55 - 153		B3L0331	12/16/2013	12/17/13 02:02	



Certificate of Analysis

The Planning Center
2850 Inland Empire Blvd., Suite B
Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD

Report To : Denise Clendening

Reported : 01/08/2014

Client Sample ID B-5@0.5'

Lab ID: 1303936-30

Polychlorinated Biphenyls by EPA 8082

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
Aroclor 1221	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
Aroclor 1232	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
Aroclor 1242	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
Aroclor 1248	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
Aroclor 1254	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
Aroclor 1260	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
Aroclor 1262	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
Aroclor 1268	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:28	
<i>Surrogate: Decachlorobiphenyl</i>	108 %		16 - 152		B3L0329	12/16/2013	12/17/13 15:28	
<i>Surrogate: Tetrachloro-m-xylene</i>	94.7 %		38 - 131		B3L0329	12/16/2013	12/17/13 15:28	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Acenaphthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Acenaphthylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Benzo(a)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Benzo(a)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Chrysene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Fluorene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Naphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Phenanthrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
Pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:08	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	57.8 %		28 - 96		B3L0350	12/17/2013	12/17/13 22:08	
<i>Surrogate: 2-Fluorobiphenyl</i>	73.3 %		36 - 113		B3L0350	12/17/2013	12/17/13 22:08	
<i>Surrogate: Nitrobenzene-d5</i>	48.6 %		29 - 106		B3L0350	12/17/2013	12/17/13 22:08	
<i>Surrogate: 4-Terphenyl-d14</i>	73.3 %		39 - 138		B3L0350	12/17/2013	12/17/13 22:08	



Certificate of Analysis

The Planning Center
2850 Inland Empire Blvd., Suite B
Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-5@3.0'

Lab ID: 1303936-31

Semivolatle Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Acenaphthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Acenaphthylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Benzo(a)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Benzo(a)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Chrysene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Fluorene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Naphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Phenanthrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
Pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 22:36	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>65.1 %</i>		<i>28 - 96</i>		B3L0350	12/17/2013	<i>12/17/13 22:36</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>81.6 %</i>		<i>36 - 113</i>		B3L0350	12/17/2013	<i>12/17/13 22:36</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>58.5 %</i>		<i>29 - 106</i>		B3L0350	12/17/2013	<i>12/17/13 22:36</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>75.9 %</i>		<i>39 - 138</i>		B3L0350	12/17/2013	<i>12/17/13 22:36</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-51@0.5'
Lab ID: 1303936-34

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Arsenic	4.1	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Barium	150	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Beryllium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Cadmium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Chromium	9.5	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Cobalt	5.4	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Copper	8.2	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Lead	4.2	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Molybdenum	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Nickel	6.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Selenium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Silver	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Thallium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Vanadium	36	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	
Zinc	46	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:14	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0369	12/18/2013	12/18/13 13:18	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:48	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:48	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:48	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:48	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:48	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:48	
<i>Surrogate: p-Terphenyl</i>	82.6 %		55 - 153		B3L0331	12/16/2013	12/16/13 23:48	



Certificate of Analysis

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 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-51@0.5'

Lab ID: 1303936-34

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
4,4'-DDE	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
4,4'-DDT	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 11:25	
<i>Surrogate: Decachlorobiphenyl</i>	<i>79.1 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 11:25</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>91.0 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 11:25</i>	



Certificate of Analysis

The Planning Center

2850 Inland Empire Blvd., Suite B

Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD

Report To : Denise Clendening

Reported : 01/08/2014

Client Sample ID B-51@0.5'

Lab ID: 1303936-34

Polychlorinated Biphenyls by EPA 8082

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
Aroclor 1221	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
Aroclor 1232	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
Aroclor 1242	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
Aroclor 1248	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
Aroclor 1254	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
Aroclor 1260	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
Aroclor 1262	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
Aroclor 1268	ND	16	NA	1	B3L0329	12/16/2013	12/17/13 15:59	
<i>Surrogate: Decachlorobiphenyl</i>	<i>112 %</i>	<i>16 - 152</i>			B3L0329	12/16/2013	<i>12/17/13 15:59</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>95.3 %</i>	<i>38 - 131</i>			B3L0329	12/16/2013	<i>12/17/13 15:59</i>	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Acenaphthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Acenaphthylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Benzo(a)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Benzo(a)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Chrysene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Fluorene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Naphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Phenanthrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
Pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:03	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>57.2 %</i>	<i>28 - 96</i>			B3L0350	12/17/2013	<i>12/17/13 23:03</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>69.4 %</i>	<i>36 - 113</i>			B3L0350	12/17/2013	<i>12/17/13 23:03</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>46.9 %</i>	<i>29 - 106</i>			B3L0350	12/17/2013	<i>12/17/13 23:03</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>73.0 %</i>	<i>39 - 138</i>			B3L0350	12/17/2013	<i>12/17/13 23:03</i>	



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The Planning Center
2850 Inland Empire Blvd., Suite B
Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-33@0.5'

Lab ID: 1303936-42

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.7	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:16	
Lead	7.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:16	



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2850 Inland Empire Blvd., Suite B

Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD

Report To : Denise Clendening

Reported : 01/08/2014

Client Sample ID B-41@0.5'

Lab ID: 1303936-52

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.9	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:17	
Lead	7.1	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:17	



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The Planning Center
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 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-16@0.5'
Lab ID: 1303936-58

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Arsenic	2.5	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Barium	81	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Beryllium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Cadmium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Chromium	6.1	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Cobalt	3.2	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Copper	6.6	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Lead	5.5	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Molybdenum	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Nickel	4.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Selenium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Silver	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Thallium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Vanadium	22	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	
Zinc	33	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:19	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0369	12/18/2013	12/18/13 13:24	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:46	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:46	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:46	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:46	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:46	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:46	
<i>Surrogate: p-Terphenyl</i>	<i>90.4 %</i>		<i>55 - 153</i>		B3L0331	12/16/2013	<i>12/17/13 01:46</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-16@3.0'

Lab ID: 1303936-59

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Arsenic	4.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Barium	150	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Beryllium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Cadmium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Chromium	11	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Cobalt	5.9	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Copper	8.4	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Lead	3.4	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Molybdenum	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Nickel	7.0	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Selenium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Silver	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Thallium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Vanadium	40	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	
Zinc	50	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:20	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0369	12/18/2013	12/18/13 13:26	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:15	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:15	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:15	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:15	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:15	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:15	
<i>Surrogate: p-Terphenyl</i>	<i>80.5 %</i>		<i>55 - 153</i>		B3L0331	12/16/2013	<i>12/16/13 23:15</i>	



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The Planning Center
2850 Inland Empire Blvd., Suite B
Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-16@3.0'

Lab ID: 1303936-59

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Acenaphthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Acenaphthylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Benzo(a)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Benzo(a)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Chrysene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Fluorene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Naphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Phenanthrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
Pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:31	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>59.7 %</i>		<i>28 - 96</i>		B3L0350	12/17/2013	<i>12/17/13 23:31</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>67.7 %</i>		<i>36 - 113</i>		B3L0350	12/17/2013	<i>12/17/13 23:31</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>50.0 %</i>		<i>29 - 106</i>		B3L0350	12/17/2013	<i>12/17/13 23:31</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>68.7 %</i>		<i>39 - 138</i>		B3L0350	12/17/2013	<i>12/17/13 23:31</i>	



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The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-10@0.5'
Lab ID: 1303936-60

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Arsenic	2.9	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Barium	100	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Beryllium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Cadmium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Chromium	6.7	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Cobalt	3.7	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Copper	6.9	2.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Lead	4.2	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Molybdenum	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Nickel	4.5	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Selenium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Silver	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Thallium	ND	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Vanadium	26	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	
Zinc	38	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:22	

Mercury by AA (Cold Vapor) EPA 7471A

Analyst: SB

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.10	NA	1	B3L0369	12/18/2013	12/18/13 13:28	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:29	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:29	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:29	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:29	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:29	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B3L0331	12/16/2013	12/17/13 01:29	
<i>Surrogate: p-Terphenyl</i>	<i>92.6 %</i>		<i>55 - 153</i>		B3L0331	12/16/2013	<i>12/17/13 01:29</i>	



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The Planning Center
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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID B-10@3.0'

Lab ID: 1303936-61

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:32	
T/R Hydrocarbons: C10-C18	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:32	
T/R Hydrocarbons: C18-C28	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:32	
T/R Hydrocarbons: C28-C36	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:32	
T/R Hydrocarbons: C36-C40	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:32	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10	NA	1	B3L0331	12/16/2013	12/16/13 23:32	
<i>Surrogate: p-Terphenyl</i>	<i>67.5 %</i>		<i>55 - 153</i>		B3L0331	12/16/2013	<i>12/16/13 23:32</i>	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Acenaphthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Acenaphthylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Benzo(a)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Benzo(a)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Benzo(b)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Benzo(g,h,i)perylene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Benzo(k)fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Chrysene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Dibenz(a,h)anthracene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Fluoranthene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Fluorene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Indeno(1,2,3-cd)pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Naphthalene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Phenanthrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
Pyrene	ND	5.0	NA	1	B3L0350	12/17/2013	12/17/13 23:58	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>66.8 %</i>		<i>28 - 96</i>		B3L0350	12/17/2013	<i>12/17/13 23:58</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>84.4 %</i>		<i>36 - 113</i>		B3L0350	12/17/2013	<i>12/17/13 23:58</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>59.6 %</i>		<i>29 - 106</i>		B3L0350	12/17/2013	<i>12/17/13 23:58</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>75.7 %</i>		<i>39 - 138</i>		B3L0350	12/17/2013	<i>12/17/13 23:58</i>	



Certificate of Analysis

The Planning Center
2850 Inland Empire Blvd., Suite B
Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-11@0.5'

Lab ID: 1303936-68

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:24	
Lead	3.7	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:24	



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2850 Inland Empire Blvd., Suite B
Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-15@0.5'

Lab ID: 1303936-76

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	3.0	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:29	
Lead	4.7	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:29	



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The Planning Center
2850 Inland Empire Blvd., Suite B
Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-36@0.5'

Lab ID: 1303936-88

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.6	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:30	
Lead	4.0	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:30	



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Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-38@0.5'

Lab ID: 1303936-92

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:32	
Lead	3.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:32	



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Project Number : High School 5, Option A Irvine, CA, ISD

Report To : Denise Clendening

Reported : 01/08/2014

Client Sample ID B-31@0.5'

Lab ID: 1303936-94

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	1.2	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:34	
Lead	2.8	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:34	



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Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD

Report To : Denise Clendening

Reported : 01/08/2014

Client Sample ID B-17@0.5'

Lab ID: 1303936-AE

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.4	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:35	
Lead	3.6	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:35	



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Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID B-26@0.5'

Lab ID: 1303936-AI

Total Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/kg)	PQL (mg/kg)	MDL (mg/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Arsenic	2.3	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:37	
Lead	4.1	1.0	NA	1	B3L0360	12/17/2013	12/18/13 13:37	



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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID EB121113

Lab ID: 1303936-AK

Title 22 Metals by ICP-AES EPA 6010B

Analyst: AG

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Antimony	ND	0.0050	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Arsenic	ND	0.010	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Barium	ND	0.0030	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Beryllium	ND	0.0030	NA	1	B3L0340	12/17/2013	12/17/13 15:12	
Cadmium	ND	0.0030	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Chromium	ND	0.0030	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Cobalt	ND	0.0030	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Copper	ND	0.0050	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Lead	ND	0.0050	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Molybdenum	ND	0.0050	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Nickel	ND	0.0050	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Selenium	ND	0.010	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Silver	ND	0.0030	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Thallium	ND	0.015	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Vanadium	ND	0.0030	NA	1	B3L0340	12/17/2013	12/17/13 15:13	
Zinc	ND	0.010	NA	1	B3L0340	12/17/2013	12/17/13 15:13	

Mercury by AA (Cold Vapor) EPA 7470A

Analyst: SB

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Mercury	ND	0.20	NA	1	B3L0368	12/18/2013	12/18/13 14:31	

Hydrocarbon Chain Distribution by EPA 8015B (Modified)

Analyst: CR

Analyte	Result (mg/L)	PQL (mg/L)	MDL (mg/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
T/R Hydrocarbons: C8-C10	ND	0.20	NA	1	B3L0352	12/17/2013	12/18/13 11:25	
T/R Hydrocarbons: C10-C18	ND	0.20	NA	1	B3L0352	12/17/2013	12/18/13 11:25	
T/R Hydrocarbons: C18-C28	ND	0.20	NA	1	B3L0352	12/17/2013	12/18/13 11:25	
T/R Hydrocarbons: C28-C36	ND	0.20	NA	1	B3L0352	12/17/2013	12/18/13 11:25	
T/R Hydrocarbons: C36-C40	ND	0.20	NA	1	B3L0352	12/17/2013	12/18/13 11:25	
T/R Hydrocarbons: C8-C40 Total (HW)	ND	0.20	NA	1	B3L0352	12/17/2013	12/18/13 11:25	
<i>Surrogate: p-Terphenyl</i>	65.2 %		30 - 142		B3L0352	12/17/2013	12/18/13 11:25	



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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID EB121113

Lab ID: 1303936-AK

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
4,4'-DDE	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
4,4'-DDT	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Aldrin	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
alpha-BHC	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
alpha-Chlordane	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
beta-BHC	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Chlordane	ND	0.25	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
delta-BHC	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Dieldrin	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Endosulfan I	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Endosulfan II	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Endosulfan sulfate	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Endrin	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Endrin aldehyde	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Endrin ketone	ND	0.05	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
gamma-BHC	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
gamma-Chlordane	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Heptachlor	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Heptachlor epoxide	ND	0.02	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Methoxychlor	ND	0.25	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
Toxaphene	ND	2.5	NA	1	B3L0278	12/13/2013	12/13/13 16:24	
<i>Surrogate: Decachlorobiphenyl</i>	<i>65.9 %</i>		<i>23 - 138</i>		B3L0278	12/13/2013	<i>12/13/13 16:24</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>88.1 %</i>		<i>36 - 140</i>		B3L0278	12/13/2013	<i>12/13/13 16:24</i>	



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Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID EB121113

Lab ID: 1303936-AK

Polychlorinated Biphenyls by EPA 8082

Analyst: PIL

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
Aroclor 1016	ND	0.50	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
Aroclor 1221	ND	1.0	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
Aroclor 1232	ND	0.50	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
Aroclor 1242	ND	0.50	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
Aroclor 1248	ND	0.50	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
Aroclor 1254	ND	0.50	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
Aroclor 1260	ND	0.50	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
Aroclor 1262	ND	0.50	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
Aroclor 1268	ND	0.50	NA	1	B3L0278	12/13/2013	12/13/13 21:49	
<i>Surrogate: Decachlorobiphenyl</i>	<i>88.5 %</i>		<i>16 - 148</i>		B3L0278	12/13/2013	<i>12/13/13 21:49</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>95.5 %</i>		<i>45 - 116</i>		B3L0278	12/13/2013	<i>12/13/13 21:49</i>	

Semivolatile Organic Compounds by EPA 8270/SIM

Analyst: MFR

Analyte	Result (ug/L)	PQL (ug/L)	MDL (ug/L)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
2-Methylnaphthalene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Acenaphthene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Acenaphthylene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Anthracene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Benzo(a)anthracene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Benzo(a)pyrene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Benzo(b)fluoranthene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Benzo(g,h,i)perylene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Benzo(k)fluoranthene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Chrysene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Dibenz(a,h)anthracene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Fluoranthene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Fluorene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Indeno(1,2,3-cd)pyrene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Naphthalene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Phenanthrene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
Pyrene	ND	0.20	NA	1	B3L0349	12/17/2013	12/17/13 14:30	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>64.8 %</i>		<i>25 - 126</i>		B3L0349	12/17/2013	<i>12/17/13 14:30</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>76.1 %</i>		<i>41 - 123</i>		B3L0349	12/17/2013	<i>12/17/13 14:30</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>51.5 %</i>		<i>37 - 139</i>		B3L0349	12/17/2013	<i>12/17/13 14:30</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>72.3 %</i>		<i>67 - 135</i>		B3L0349	12/17/2013	<i>12/17/13 14:30</i>	



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The Planning Center
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Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID Composite B-42, B-48, B-49 Lab ID: 1303936-AL

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	4.2	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
4,4'-DDE	25	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
4,4'-DDT [2C]	18	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
alpha-Chlordane [2C]	3.0	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Chlordane [2C]	43	8.5	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
gamma-Chlordane	1.9	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 11:38	
<i>Surrogate: Decachlorobiphenyl</i>	<i>93.4 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 11:38</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>83.0 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 11:38</i>	



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The Planning Center
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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-1, B-2, B-3 Lab ID: 1303936-AM

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
4,4'-DDE	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
4,4'-DDT	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 11:51	
<i>Surrogate: Decachlorobiphenyl</i>	<i>81.8 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 11:51</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>67.7 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 11:51</i>	



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The Planning Center
 2850 Inland Empire Blvd., Suite B
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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-1DUP, B-2DUP, B-3DUP Lab ID: 1303936-AN

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
4,4'-DDE	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
4,4'-DDT	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 12:05	
<i>Surrogate: Decachlorobiphenyl</i>	<i>93.0 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 12:05</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>75.7 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 12:05</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-5, B-6, B-9, B-10 Lab ID: 1303936-AO

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
4,4'-DDE	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
4,4'-DDT	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 12:18	
<i>Surrogate: Decachlorobiphenyl</i>	<i>92.1 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 12:18</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>76.5 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 12:18</i>	



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The Planning Center
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 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-13, B-16, B-19, B-20 Lab ID: 1303936-AP

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
4,4'-DDE	10	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
4,4'-DDT [2C]	6.0	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 12:31	
<i>Surrogate: Decachlorobiphenyl</i>	95.9 %		32 - 113		B3L0329	12/16/2013	12/17/13 12:31	
<i>Surrogate: Tetrachloro-m-xylene</i>	78.3 %		32 - 101		B3L0329	12/16/2013	12/17/13 12:31	



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The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-18, B-25, B-33, B-40 Lab ID: 1303936-AQ

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
4,4'-DDE	5.7	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
4,4'-DDT [2C]	3.9	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 12:44	
<i>Surrogate: Decachlorobiphenyl</i>	<i>90.8 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 12:44</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>77.9 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 12:44</i>	



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The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-41, B-46, B-47, B-50 Lab ID: 1303936-AR

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
4,4'-DDE	29	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
4,4'-DDT [2C]	8.1	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 12:57	
<i>Surrogate: Decachlorobiphenyl</i>	97.9 %		32 - 113		B3L0329	12/16/2013	12/17/13 12:57	
<i>Surrogate: Tetrachloro-m-xylene</i>	79.5 %		32 - 101		B3L0329	12/16/2013	12/17/13 12:57	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-4, B-7, B-8, B-11 Lab ID: 1303936-AS

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
4,4'-DDE	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
4,4'-DDT	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 13:10	
<i>Surrogate: Decachlorobiphenyl</i>	<i>97.6 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 13:10</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>77.6 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 13:10</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-12, B-14, B-15, B-21 Lab ID: 1303936-AT

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
4,4'-DDE	7.3	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
4,4'-DDT [2C]	3.5	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
alpha-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Chlordane	ND	8.5	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
gamma-Chlordane	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 13:24	
<i>Surrogate: Decachlorobiphenyl</i>	<i>105 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 13:24</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>81.8 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 13:24</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-37, B-38, B-44, B-45 Lab ID: 1303936-AU

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
4,4'-DDE	26	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
4,4'-DDT	20	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
alpha-Chlordane [2C]	3.3	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Chlordane [2C]	41	8.5	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
gamma-Chlordane	2.4	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 13:37	
<i>Surrogate: Decachlorobiphenyl</i>	<i>88.8 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 13:37</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>64.8 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 13:37</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-29, B-30, B-36, B-43 Lab ID: 1303936-AV

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
4,4'-DDE	53	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
4,4'-DDT [2C]	46	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
alpha-Chlordane [2C]	7.2	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Chlordane [2C]	78	8.5	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
gamma-Chlordane	5.7	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 13:50	
<i>Surrogate: Decachlorobiphenyl</i>	<i>102 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 13:50</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>80.2 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 13:50</i>	



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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Client Sample ID Composite B-24, B-31, B-32, B-39 Lab ID: 1303936-AW

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
4,4'-DDE	25	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
4,4'-DDT	19	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
alpha-Chlordane [2C]	3.2	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Chlordane [2C]	43	8.5	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
gamma-Chlordane	2.6	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 14:03	
<i>Surrogate: Decachlorobiphenyl</i>	<i>92.6 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 14:03</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>72.8 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 14:03</i>	



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Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID Composite B-17, B-22, B-23, B-28 Lab ID: 1303936-AX

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
4,4'-DDE	24	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
4,4'-DDT	18	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
alpha-Chlordane [2C]	3.2	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Chlordane	36	8.5	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
gamma-Chlordane	2.4	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 14:16	
<i>Surrogate: Decachlorobiphenyl</i>	<i>97.4 %</i>		<i>32 - 113</i>		B3L0329	12/16/2013	<i>12/17/13 14:16</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>83.1 %</i>		<i>32 - 101</i>		B3L0329	12/16/2013	<i>12/17/13 14:16</i>	



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Project Number : High School 5, Option A Irvine, CA, ISD
Report To : Denise Clendening
Reported : 01/08/2014

Client Sample ID Composite B-26, B-27, B-34, B-35 Lab ID: 1303936-AY

Organochlorine Pesticides by EPA 8081

Analyst: PIL

Analyte	Result (ug/kg)	PQL (ug/kg)	MDL (ug/kg)	Dilution	Batch	Prepared	Date/Time Analyzed	Notes
4,4'-DDD [2C]	5.1	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
4,4'-DDE	44	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
4,4'-DDT [2C]	22	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Aldrin	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
alpha-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
alpha-Chlordane [2C]	2.0	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
beta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Chlordane [2C]	45	8.5	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
delta-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Dieldrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Endosulfan I	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Endosulfan II	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Endosulfan sulfate	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Endrin	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Endrin aldehyde	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Endrin ketone	ND	2.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
gamma-BHC	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
gamma-Chlordane	1.8	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Heptachlor	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Heptachlor epoxide	ND	1.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Methoxychlor	ND	5.0	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Toxaphene	ND	50	NA	1	B3L0329	12/16/2013	12/17/13 14:30	
Surrogate: Decachlorobiphenyl	99.5 %		32 - 113		B3L0329	12/16/2013	12/17/13 14:30	
Surrogate: Tetrachloro-m-xylene	82.6 %		32 - 101		B3L0329	12/16/2013	12/17/13 14:30	



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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

QUALITY CONTROL SECTION

Total Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3L0340 - EPA 3010A									
Blank (B3L0340-BLK1)				Prepared: 12/17/2013 Analyzed: 12/17/2013					
Arsenic	ND	0.010			NR				
Lead	ND	0.0050			NR				
LCS (B3L0340-BS1)				Prepared: 12/17/2013 Analyzed: 12/17/2013					
Arsenic	0.975340	0.010	1.00000		97.5	80 - 120			
Lead	0.992005	0.0050	1.00000		99.2	80 - 120			
Matrix Spike (B3L0340-MS1)				Source: 1303936-17		Prepared: 12/17/2013 Analyzed: 12/17/2013			
Arsenic	2.39968	0.010	2.50000	ND	96.0	78 - 113			
Lead	2.37216	0.0050	2.50000	ND	94.9	76 - 109			
Matrix Spike Dup (B3L0340-MSD1)				Source: 1303936-17		Prepared: 12/17/2013 Analyzed: 12/17/2013			
Arsenic	2.38392	0.010	2.50000	ND	95.4	78 - 113	0.659	20	
Lead	2.36314	0.0050	2.50000	ND	94.5	76 - 109	0.381	20	
Batch B3L0360 - EPA 3050B									
Blank (B3L0360-BLK1)				Prepared: 12/17/2013 Analyzed: 12/18/2013					
Arsenic	ND	1.0			NR				
Lead	ND	1.0			NR				
LCS (B3L0360-BS1)				Prepared: 12/17/2013 Analyzed: 12/18/2013					
Arsenic	46.4572	1.0	50.0000		92.9	80 - 120			
Lead	47.5170	1.0	50.0000		95.0	80 - 120			
Matrix Spike (B3L0360-MS1)				Source: 1303936-03		Prepared: 12/17/2013 Analyzed: 12/18/2013			
Arsenic	92.5306	1.0	125.000	1.51710	72.8	55 - 102			
Lead	92.4350	1.0	125.000	3.96903	70.8	51 - 106			
Matrix Spike Dup (B3L0360-MSD1)				Source: 1303936-03		Prepared: 12/17/2013 Analyzed: 12/18/2013			
Arsenic	102.236	1.0	125.000	1.51710	80.6	55 - 102	9.97	20	
Lead	102.911	1.0	125.000	3.96903	79.2	51 - 106	10.7	20	



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The Planning Center
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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0340 - EPA 3010A

Blank (B3L0340-BLK1)

Prepared: 12/17/2013 Analyzed: 12/17/2013

Antimony	ND	0.0050			NR
Arsenic	ND	0.010			NR
Barium	ND	0.0030			NR
Beryllium	ND	0.0030			NR
Cadmium	ND	0.0030			NR
Chromium	ND	0.0030			NR
Cobalt	ND	0.0030			NR
Copper	ND	0.0050			NR
Lead	ND	0.0050			NR
Molybdenum	ND	0.0050			NR
Nickel	ND	0.0050			NR
Selenium	ND	0.010			NR
Silver	ND	0.0030			NR
Thallium	ND	0.015			NR
Vanadium	ND	0.0030			NR
Zinc	ND	0.010			NR

LCS (B3L0340-BS1)

Prepared: 12/17/2013 Analyzed: 12/17/2013

Antimony	0.981438	0.0050	1.00000		98.1	80 - 120
Arsenic	0.975340	0.010	1.00000		97.5	80 - 120
Barium	0.955788	0.0030	1.00000		95.6	80 - 120
Beryllium	1.05855	0.0030	1.00000		106	80 - 120
Cadmium	0.971650	0.0030	1.00000		97.2	80 - 120
Chromium	0.988863	0.0030	1.00000		98.9	80 - 120
Cobalt	0.980033	0.0030	1.00000		98.0	80 - 120
Copper	1.00685	0.0050	1.00000		101	80 - 120
Lead	0.992005	0.0050	1.00000		99.2	80 - 120
Molybdenum	0.981695	0.0050	1.00000		98.2	80 - 120
Nickel	0.974880	0.0050	1.00000		97.5	80 - 120
Selenium	0.930474	0.010	1.00000		93.0	80 - 120
Silver	0.979052	0.0030	1.00000		97.9	80 - 120
Thallium	0.999176	0.015	1.00000		99.9	80 - 120
Vanadium	0.997908	0.0030	1.00000		99.8	80 - 120
Zinc	1.00695	0.010	1.00000		101	80 - 120

Matrix Spike (B3L0340-MS1)

Source: 1303936-17

Prepared: 12/17/2013 Analyzed: 12/17/2013

Antimony	2.39712	0.0050	2.50000	ND	95.9	78 - 117
Arsenic	2.39968	0.010	2.50000	ND	96.0	78 - 113
Barium	2.44200	0.0030	2.50000	0.000653	97.7	77 - 112
Beryllium	2.59098	0.0030	2.50000	ND	104	82 - 112
Cadmium	2.39967	0.0030	2.50000	ND	96.0	76 - 107
Chromium	2.45856	0.0030	2.50000	0.001002	98.3	76 - 113



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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3L0340 - EPA 3010A (continued)

Matrix Spike (B3L0340-MS1) - Continued

Source: 1303936-17

Prepared: 12/17/2013 Analyzed: 12/17/2013

Cobalt	2.42806	0.0030	2.50000	ND	97.1	75 - 110
Copper	2.44681	0.0050	2.50000	ND	97.9	77 - 115
Lead	2.37216	0.0050	2.50000	ND	94.9	76 - 109
Molybdenum	2.39482	0.0050	2.50000	ND	95.8	77 - 108
Nickel	2.42066	0.0050	2.50000	ND	96.8	67 - 121
Selenium	2.34780	0.010	2.50000	ND	93.9	67 - 125
Silver	2.47793	0.0030	2.50000	ND	99.1	68 - 129
Thallium	2.46432	0.015	2.50000	ND	98.6	70 - 119
Vanadium	2.44195	0.0030	2.50000	ND	97.7	80 - 113
Zinc	2.35045	0.010	2.50000	ND	94.0	62 - 120

Matrix Spike Dup (B3L0340-MSD1)

Source: 1303936-17

Prepared: 12/17/2013 Analyzed: 12/17/2013

Antimony	2.37626	0.0050	2.50000	ND	95.1	78 - 117	0.874	20
Arsenic	2.38392	0.010	2.50000	ND	95.4	78 - 113	0.659	20
Barium	2.41425	0.0030	2.50000	0.000653	96.5	77 - 112	1.14	20
Beryllium	2.54958	0.0030	2.50000	ND	102	82 - 112	1.61	20
Cadmium	2.37747	0.0030	2.50000	ND	95.1	76 - 107	0.929	20
Chromium	2.43146	0.0030	2.50000	0.001002	97.2	76 - 113	1.11	20
Cobalt	2.40644	0.0030	2.50000	ND	96.3	75 - 110	0.894	20
Copper	2.42420	0.0050	2.50000	ND	97.0	77 - 115	0.928	20
Lead	2.36314	0.0050	2.50000	ND	94.5	76 - 109	0.381	20
Molybdenum	2.37429	0.0050	2.50000	ND	95.0	77 - 108	0.861	20
Nickel	2.39634	0.0050	2.50000	ND	95.9	67 - 121	1.01	20
Selenium	2.32997	0.010	2.50000	ND	93.2	67 - 125	0.762	20
Silver	2.44894	0.0030	2.50000	ND	98.0	68 - 129	1.18	20
Thallium	2.44517	0.015	2.50000	ND	97.8	70 - 119	0.780	20
Vanadium	2.42314	0.0030	2.50000	ND	96.9	80 - 113	0.773	20
Zinc	2.33239	0.010	2.50000	ND	93.3	62 - 120	0.771	20

Batch B3L0360 - EPA 3050B

Blank (B3L0360-BLK1)

Prepared: 12/17/2013 Analyzed: 12/18/2013

Antimony	ND	2.0		NR
Arsenic	ND	1.0		NR
Barium	ND	1.0		NR
Beryllium	ND	1.0		NR
Cadmium	ND	1.0		NR
Chromium	ND	1.0		NR
Cobalt	ND	1.0		NR
Copper	ND	2.0		NR
Lead	ND	1.0		NR



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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3L0360 - EPA 3050B (continued)

Blank (B3L0360-BLK1) - Continued

Prepared: 12/17/2013 Analyzed: 12/18/2013

Molybdenum	ND	1.0			NR
Nickel	ND	1.0			NR
Selenium	ND	1.0			NR
Silver	ND	1.0			NR
Thallium	ND	1.0			NR
Vanadium	ND	1.0			NR
Zinc	ND	1.0			NR

LCS (B3L0360-BS1)

Prepared: 12/17/2013 Analyzed: 12/18/2013

Antimony	46.2823	2.0	50.0000		92.6	80 - 120
Arsenic	46.4572	1.0	50.0000		92.9	80 - 120
Barium	46.8933	1.0	50.0000		93.8	80 - 120
Beryllium	47.6733	1.0	50.0000		95.3	80 - 120
Cadmium	47.7714	1.0	50.0000		95.5	80 - 120
Chromium	48.9695	1.0	50.0000		97.9	80 - 120
Cobalt	48.1165	1.0	50.0000		96.2	80 - 120
Copper	48.6269	2.0	50.0000		97.3	80 - 120
Lead	47.5170	1.0	50.0000		95.0	80 - 120
Molybdenum	50.0518	1.0	50.0000		100	80 - 120
Nickel	46.9838	1.0	50.0000		94.0	80 - 120
Selenium	43.2074	1.0	50.0000		86.4	80 - 120
Silver	45.6809	1.0	50.0000		91.4	80 - 120
Thallium	47.3506	1.0	50.0000		94.7	80 - 120
Vanadium	48.1681	1.0	50.0000		96.3	80 - 120
Zinc	49.6457	1.0	50.0000		99.3	80 - 120

Matrix Spike (B3L0360-MS1)

Source: 1303936-03

Prepared: 12/17/2013 Analyzed: 12/18/2013

Antimony	84.7879	2.0	125.000	ND	67.8	21 - 109
Arsenic	92.5306	1.0	125.000	1.51710	72.8	55 - 102
Barium	158.026	1.0	125.000	41.7004	93.1	40 - 130
Beryllium	91.5260	1.0	125.000	0.184726	73.1	60 - 104
Cadmium	90.0675	1.0	125.000	0.376348	71.8	52 - 100
Chromium	99.4447	1.0	125.000	4.44824	76.0	53 - 113
Cobalt	90.2037	1.0	125.000	1.75203	70.8	53 - 104
Copper	100.275	2.0	125.000	6.01462	75.4	51 - 122
Lead	92.4350	1.0	125.000	3.96903	70.8	51 - 106
Molybdenum	93.8965	1.0	125.000	0.496987	74.7	55 - 103
Nickel	91.8068	1.0	125.000	3.22413	70.9	48 - 112
Selenium	86.3760	1.0	125.000	ND	69.1	53 - 104
Silver	92.0796	1.0	125.000	ND	73.7	61 - 109
Thallium	85.9452	1.0	125.000	ND	68.8	44 - 103
Vanadium	109.314	1.0	125.000	12.2374	77.7	55 - 115



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Title 22 Metals by ICP-AES EPA 6010B - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3L0360 - EPA 3050B (continued)									
Matrix Spike (B3L0360-MS1) - Continued			Source: 1303936-03		Prepared: 12/17/2013 Analyzed: 12/18/2013				
Zinc	114.868	1.0	125.000	26.1876	70.9	24 - 130			
Matrix Spike Dup (B3L0360-MSD1)			Source: 1303936-03		Prepared: 12/17/2013 Analyzed: 12/18/2013				
Antimony	95.0784	2.0	125.000	ND	76.1	21 - 109	11.4	20	
Arsenic	102.236	1.0	125.000	1.51710	80.6	55 - 102	9.97	20	
Barium	145.417	1.0	125.000	41.7004	83.0	40 - 130	8.31	20	
Beryllium	104.383	1.0	125.000	0.184726	83.4	60 - 104	13.1	20	
Cadmium	100.951	1.0	125.000	0.376348	80.5	52 - 100	11.4	20	
Chromium	110.042	1.0	125.000	4.44824	84.5	53 - 113	10.1	20	
Cobalt	102.609	1.0	125.000	1.75203	80.7	53 - 104	12.9	20	
Copper	111.844	2.0	125.000	6.01462	84.7	51 - 122	10.9	20	
Lead	102.911	1.0	125.000	3.96903	79.2	51 - 106	10.7	20	
Molybdenum	105.177	1.0	125.000	0.496987	83.7	55 - 103	11.3	20	
Nickel	102.554	1.0	125.000	3.22413	79.5	48 - 112	11.1	20	
Selenium	97.1894	1.0	125.000	ND	77.8	53 - 104	11.8	20	
Silver	104.402	1.0	125.000	ND	83.5	61 - 109	12.5	20	
Thallium	97.3894	1.0	125.000	ND	77.9	44 - 103	12.5	20	
Vanadium	117.812	1.0	125.000	12.2374	84.5	55 - 115	7.48	20	
Zinc	124.776	1.0	125.000	26.1876	78.9	24 - 130	8.27	20	



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Mercury by AA (Cold Vapor) EPA 7470A - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
Batch B3L0368 - EPA 245.1/7470									
Blank (B3L0368-BLK1)				Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	ND	0.20			NR				
LCS (B3L0368-BS1)				Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	9.84269	0.20	10.0000		98.4	80 - 120			
Matrix Spike (B3L0368-MS1)				Source: 1303936-AK Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	9.83706	0.20	10.0000	ND	98.4	70 - 130			
Matrix Spike Dup (B3L0368-MSD1)				Source: 1303936-AK Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	9.57840	0.20	10.0000	ND	95.8	70 - 130	2.66	20	
Post Spike (B3L0368-PS1)				Source: 1303936-AK Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	4.95366		5.00000	-0.005858	99.2	85 - 115			



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Mercury by AA (Cold Vapor) EPA 7471A - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
Batch B3L0369 - EPA 7471									
Blank (B3L0369-BLK1)				Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	ND	0.10			NR				
LCS (B3L0369-BS1)				Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	0.731144	0.10	0.833333		87.7	80 - 120			
Matrix Spike (B3L0369-MS1)				Source: 1303936-18 Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	0.789706	0.10	0.833333	0.016509	92.8	70 - 130			
Matrix Spike Dup (B3L0369-MSD1)				Source: 1303936-18 Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	0.812160	0.10	0.833333	0.016509	95.5	70 - 130	2.80	20	
Post Spike (B3L0369-PS1)				Source: 1303936-18 Prepared: 12/18/2013 Analyzed: 12/18/2013					
Mercury	0.004995		5.00000E-3	0.000198	95.9	85 - 115			



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Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0331 - GCSEMI_DRO

Blank (B3L0331-BLK1)

Prepared: 12/16/2013 Analyzed: 12/16/2013

T/R Hydrocarbons: C8-C10	ND	10						NR	
T/R Hydrocarbons: C10-C18	ND	10						NR	
T/R Hydrocarbons: C18-C28	ND	10						NR	
T/R Hydrocarbons: C28-C36	ND	10						NR	
T/R Hydrocarbons: C36-C40	ND	10						NR	
T/R Hydrocarbons: C8-C40 Total (HS)	ND	10						NR	

<i>Surrogate: p-Terphenyl</i>	73.54		80.0000		91.9			55 - 153	
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Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0331 - GCSEMI_DRO (continued)

LCS (B3L0331-BS1)

Prepared: 12/16/2013 Analyzed: 12/16/2013

DRO	947.900	10	1000.00		94.8	65 - 151			
Surrogate: <i>p</i> -Terphenyl	64.89		80.0000		81.1	55 - 153			



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Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0331 - GCSEMI_DRO (continued)

Duplicate (B3L0331-DUP1)

Source: 1303971-12

Prepared: 12/16/2013 Analyzed: 12/17/2013

DRO	ND	10		ND	NR			20	
Surrogate: <i>p</i> -Terphenyl	76.71		80.0000		95.9	55 - 153			



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Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0331 - GCSEMI_DRO (continued)

Matrix Spike (B3L0331-MS1)

Source: 1303971-12

Prepared: 12/16/2013 Analyzed: 12/17/2013

DRO	1073.40	10	1000.00	ND	107	45 - 168			
<i>Surrogate: p-Terphenyl</i>	<i>76.90</i>		<i>80.0000</i>		<i>96.1</i>	<i>55 - 153</i>			



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Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0331 - GCSEMI_DRO (continued)

Matrix Spike Dup (B3L0331-MSD1)

Source: 1303971-12

Prepared: 12/16/2013 Analyzed: 12/17/2013

DRO	1007.13	10	1000.00	ND	101	45 - 168	6.37	20	
Surrogate: <i>p</i> -Terphenyl	70.71		80.0000		88.4	55 - 153			



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Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/kg)	PQL (mg/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0352 - GCSEMI_DRO

Blank (B3L0352-BLK1)

Prepared: 12/17/2013 Analyzed: 12/18/2013

T/R Hydrocarbons: C8-C10	ND	0.20						NR	
T/R Hydrocarbons: C10-C18	ND	0.20						NR	
T/R Hydrocarbons: C18-C28	ND	0.20						NR	
T/R Hydrocarbons: C28-C36	ND	0.20						NR	
T/R Hydrocarbons: C36-C40	ND	0.20						NR	
T/R Hydrocarbons: C8-C40 Total (HW	ND	0.20						NR	

<i>Surrogate: p-Terphenyl</i>	0.05864		8.00000E-2		73.3	30 - 142			
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Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0352 - GCSEMI_DRO (continued)

LCS (B3L0352-BS1)

Prepared: 12/17/2013 Analyzed: 12/18/2013

DRO	0.759370	0.20	1.00000		75.9	38 - 129			
Surrogate: <i>p</i> -Terphenyl	0.05898		8.00000E-2		73.7	30 - 142			



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Hydrocarbon Chain Distribution by EPA 8015B (Modified) - Quality Control (cont'd)

Analyte	Result (mg/L)	PQL (mg/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0352 - GCSEMI_DRO (continued)

LCS Dup (B3L0352-BSD1)

Prepared: 12/17/2013 Analyzed: 12/18/2013

DRO	0.738800	0.20	1.00000		73.9	38 - 129	2.75	20	
Surrogate: <i>p</i> -Terphenyl	0.05732		8.00000E-2		71.6	30 - 142			



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Organochlorine Pesticides by EPA 8081 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec % Rec	Limits Limits	RPD RPD	Limit Limit	Notes
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Batch B3L0278 - GCSEMI_PCB/PEST

Blank (B3L0278-BLK1)

Prepared: 12/13/2013 Analyzed: 12/13/2013

4,4'-DDD	ND	0.05			NR				
4,4'-DDD [2C]	ND	0.05			NR				
4,4'-DDE	ND	0.05			NR				
4,4'-DDE [2C]	ND	0.05			NR				
4,4'-DDT	ND	0.05			NR				
4,4'-DDT [2C]	ND	0.05			NR				
Aldrin	ND	0.02			NR				
Aldrin [2C]	ND	0.02			NR				
alpha-BHC	ND	0.02			NR				
alpha-BHC [2C]	ND	0.02			NR				
alpha-Chlordane	ND	0.02			NR				
alpha-Chlordane [2C]	ND	0.02			NR				
beta-BHC	ND	0.02			NR				
beta-BHC [2C]	ND	0.02			NR				
Chlordane	ND	0.25			NR				
Chlordane [2C]	ND	0.25			NR				
delta-BHC	ND	0.02			NR				
delta-BHC [2C]	ND	0.02			NR				
Dieldrin	ND	0.05			NR				
Dieldrin [2C]	ND	0.05			NR				
Endosulfan I	ND	0.02			NR				
Endosulfan I [2C]	ND	0.02			NR				
Endosulfan II	ND	0.05			NR				
Endosulfan II [2C]	ND	0.05			NR				
Endosulfan sulfate	ND	0.05			NR				
Endosulfan Sulfate [2C]	ND	0.05			NR				
Endrin	ND	0.05			NR				
Endrin [2C]	ND	0.05			NR				
Endrin aldehyde	ND	0.05			NR				
Endrin aldehyde [2C]	ND	0.05			NR				
Endrin ketone	ND	0.05			NR				
Endrin ketone [2C]	ND	0.05			NR				
gamma-BHC	ND	0.02			NR				
gamma-BHC [2C]	ND	0.02			NR				
gamma-Chlordane	ND	0.02			NR				
gamma-Chlordane [2C]	ND	0.02			NR				
Heptachlor	ND	0.02			NR				
Heptachlor [2C]	ND	0.02			NR				
Heptachlor epoxide	ND	0.02			NR				
Heptachlor epoxide [2C]	ND	0.02			NR				
Methoxychlor	ND	0.25			NR				



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0278 - GCSEMI_PCB/PEST (continued)

Blank (B3L0278-BLK1) - Continued

Prepared: 12/13/2013 Analyzed: 12/13/2013

Methoxychlor [2C]	ND	0.25				NR			
Toxaphene	ND	2.5				NR			
Toxaphene [2C]	ND	2.5				NR			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.4252</i>		<i>0.500000</i>			<i>85.0</i>	<i>23 - 138</i>		
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.4034</i>		<i>0.500000</i>			<i>80.7</i>	<i>23 - 138</i>		
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.4128</i>		<i>0.500000</i>			<i>82.6</i>	<i>36 - 140</i>		
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.3816</i>		<i>0.500000</i>			<i>76.3</i>	<i>36 - 140</i>		



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3L0278 - GCSEMI_PCB/PEST (continued)

LCS (B3L0278-BS1)

Prepared: 12/13/2013 Analyzed: 12/13/2013

4,4'-DDT	0.447925	0.05	0.500000		89.6	45 - 107			
4,4'-DDT [2C]	0.465640	0.05	0.500000		93.1	45 - 107			
Aldrin	0.417995	0.02	0.500000		83.6	62 - 103			
Aldrin [2C]	0.406365	0.02	0.500000		81.3	62 - 103			
Dieldrin	0.445130	0.05	0.500000		89.0	55 - 103			
Dieldrin [2C]	0.474295	0.05	0.500000		94.9	55 - 103			
Endrin	0.455965	0.05	0.500000		91.2	44 - 116			
Endrin [2C]	0.492185	0.05	0.500000		98.4	44 - 116			
gamma-BHC	0.424490	0.02	0.500000		84.9	60 - 106			
gamma-BHC [2C]	0.441995	0.02	0.500000		88.4	60 - 106			
Heptachlor	0.392020	0.02	0.500000		78.4	52 - 119			
Heptachlor [2C]	0.376020	0.02	0.500000		75.2	52 - 119			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.4630</i>		<i>0.500000</i>		<i>92.6</i>	<i>23 - 138</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.4418</i>		<i>0.500000</i>		<i>88.4</i>	<i>23 - 138</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.4241</i>		<i>0.500000</i>		<i>84.8</i>	<i>36 - 140</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.4104</i>		<i>0.500000</i>		<i>82.1</i>	<i>36 - 140</i>			



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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3L0278 - GCSEMI_PCB/PEST (continued)

LCS Dup (B3L0278-BSD1)

Prepared: 12/13/2013 Analyzed: 12/13/2013

4,4'-DDT	0.475250	0.05	0.500000		95.0	45 - 107	5.92	20	
4,4'-DDT [2C]	0.499155	0.05	0.500000		99.8	45 - 107	6.95	20	
Aldrin	0.440415	0.02	0.500000		88.1	62 - 103	5.22	20	
Aldrin [2C]	0.431330	0.02	0.500000		86.3	62 - 103	5.96	20	
Dieldrin	0.472330	0.05	0.500000		94.5	55 - 103	5.93	20	
Dieldrin [2C]	0.506280	0.05	0.500000		101	55 - 103	6.52	20	
Endrin	0.482560	0.05	0.500000		96.5	44 - 116	5.67	20	
Endrin [2C]	0.522985	0.05	0.500000		105	44 - 116	6.07	20	
gamma-BHC	0.444280	0.02	0.500000		88.9	60 - 106	4.56	20	
gamma-BHC [2C]	0.466095	0.02	0.500000		93.2	60 - 106	5.31	20	
Heptachlor	0.412105	0.02	0.500000		82.4	52 - 119	5.00	20	
Heptachlor [2C]	0.397160	0.02	0.500000		79.4	52 - 119	5.47	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.4849</i>		<i>0.500000</i>		<i>97.0</i>	<i>23 - 138</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>0.4589</i>		<i>0.500000</i>		<i>91.8</i>	<i>23 - 138</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.4316</i>		<i>0.500000</i>		<i>86.3</i>	<i>36 - 140</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>0.4205</i>		<i>0.500000</i>		<i>84.1</i>	<i>36 - 140</i>			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec % Rec	Limits	RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST

Blank (B3L0329-BLK1)

Prepared: 12/16/2013 Analyzed: 12/17/2013

4,4'-DDD	ND	2.0			NR				
4,4'-DDD [2C]	ND	2.0			NR				
4,4'-DDE	ND	2.0			NR				
4,4'-DDE [2C]	ND	2.0			NR				
4,4'-DDT	ND	2.0			NR				
4,4'-DDT [2C]	ND	2.0			NR				
Aldrin	ND	1.0			NR				
Aldrin [2C]	ND	1.0			NR				
alpha-BHC	ND	1.0			NR				
alpha-BHC [2C]	ND	1.0			NR				
alpha-Chlordane	ND	1.0			NR				
alpha-Chlordane [2C]	ND	1.0			NR				
beta-BHC	ND	1.0			NR				
beta-BHC [2C]	ND	1.0			NR				
Chlordane	ND	8.5			NR				
Chlordane [2C]	ND	8.5			NR				
delta-BHC	ND	1.0			NR				
delta-BHC [2C]	ND	1.0			NR				
Dieldrin	ND	2.0			NR				
Dieldrin [2C]	ND	2.0			NR				
Endosulfan I	ND	1.0			NR				
Endosulfan I [2C]	ND	1.0			NR				
Endosulfan II	ND	2.0			NR				
Endosulfan II [2C]	ND	2.0			NR				
Endosulfan sulfate	ND	2.0			NR				
Endosulfan Sulfate [2C]	ND	2.0			NR				
Endrin	ND	2.0			NR				
Endrin [2C]	ND	2.0			NR				
Endrin aldehyde	ND	2.0			NR				
Endrin aldehyde [2C]	ND	2.0			NR				
Endrin ketone	ND	2.0			NR				
Endrin ketone [2C]	ND	2.0			NR				
gamma-BHC	ND	1.0			NR				
gamma-BHC [2C]	ND	1.0			NR				
gamma-Chlordane	ND	1.0			NR				
gamma-Chlordane [2C]	ND	1.0			NR				
Heptachlor	ND	1.0			NR				
Heptachlor [2C]	ND	1.0			NR				
Heptachlor epoxide	ND	1.0			NR				
Heptachlor epoxide [2C]	ND	1.0			NR				
Methoxychlor	ND	5.0			NR				



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST (continued)

Blank (B3L0329-BLK1) - Continued

Prepared: 12/16/2013 Analyzed: 12/17/2013

Methoxychlor [2C]	ND	5.0					NR		
Toxaphene	ND	50					NR		
Toxaphene [2C]	ND	50					NR		
<i>Surrogate: Decachlorobiphenyl</i>	<i>13.58</i>		<i>16.6667</i>				<i>81.5</i>	<i>32 - 113</i>	
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>12.92</i>		<i>16.6667</i>				<i>77.5</i>	<i>32 - 113</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.46</i>		<i>16.6667</i>				<i>74.7</i>	<i>32 - 101</i>	
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>13.06</i>		<i>16.6667</i>				<i>78.4</i>	<i>32 - 101</i>	



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST (continued)

LCS (B3L0329-BS1)

Prepared: 12/16/2013 Analyzed: 12/17/2013

4,4'-DDT	14.5365	2.0	16.6667	87.2	60 - 108
4,4'-DDT [2C]	14.4440	2.0	16.6667	86.7	60 - 108
Aldrin	12.8478	1.0	16.6667	77.1	57 - 111
Aldrin [2C]	13.4828	1.0	16.6667	80.9	57 - 111
Dieldrin	14.1155	2.0	16.6667	84.7	61 - 106
Dieldrin [2C]	15.6532	2.0	16.6667	93.9	61 - 106
Endrin	14.3993	2.0	16.6667	86.4	57 - 97
Endrin [2C]	15.9372	2.0	16.6667	95.6	57 - 97
gamma-BHC	12.9030	1.0	16.6667	77.4	61 - 109
gamma-BHC [2C]	14.4553	1.0	16.6667	86.7	61 - 109
Heptachlor	12.5195	1.0	16.6667	75.1	58 - 115
Heptachlor [2C]	11.9008	1.0	16.6667	71.4	58 - 115
<i>Surrogate: Decachlorobiphenyl</i>	<i>14.66</i>		<i>16.6667</i>	<i>87.9</i>	<i>32 - 113</i>
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>13.80</i>		<i>16.6667</i>	<i>82.8</i>	<i>32 - 113</i>
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>12.60</i>		<i>16.6667</i>	<i>75.6</i>	<i>32 - 101</i>
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>13.10</i>		<i>16.6667</i>	<i>78.6</i>	<i>32 - 101</i>



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec % Rec	% Rec Limits	RPD RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST (continued)

Matrix Spike (B3L0329-MS1)

Source: 1303936-AP

Prepared: 12/16/2013 Analyzed: 12/17/2013

4,4'-DDT	24.0833	2.0	16.6667	5.88317	109	26 - 133			
4,4'-DDT [2C]	25.4280	2.0	16.6667	6.00817	117	26 - 133			
Aldrin	14.7072	1.0	16.6667	ND	88.2	38 - 119			
Aldrin [2C]	14.9793	1.0	16.6667	ND	89.9	38 - 119			
Dieldrin	15.8690	2.0	16.6667	ND	95.2	30 - 120			
Dieldrin [2C]	17.5450	2.0	16.6667	ND	105	30 - 120			
Endrin	16.4918	2.0	16.6667	ND	99.0	30 - 114			
Endrin [2C]	19.4865	2.0	16.6667	ND	117	30 - 114			M2
gamma-BHC	15.0630	1.0	16.6667	ND	90.4	31 - 122			
gamma-BHC [2C]	15.6103	1.0	16.6667	ND	93.7	31 - 122			
Heptachlor	15.5878	1.0	16.6667	ND	93.5	38 - 123			
Heptachlor [2C]	14.5975	1.0	16.6667	ND	87.6	38 - 123			
<i>Surrogate: Decachlorobiphenyl</i>	<i>15.86</i>		<i>16.6667</i>		<i>95.2</i>	<i>32 - 113</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>15.55</i>		<i>16.6667</i>		<i>93.3</i>	<i>32 - 113</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.52</i>		<i>16.6667</i>		<i>87.1</i>	<i>32 - 101</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>14.11</i>		<i>16.6667</i>		<i>84.7</i>	<i>32 - 101</i>			



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Organochlorine Pesticides by EPA 8081 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST (continued)

Matrix Spike Dup (B3L0329-MSD1)

Source: 1303936-AP

Prepared: 12/16/2013 Analyzed: 12/17/2013

4,4'-DDT	24.8315	2.0	16.6667	5.88317	114	26 - 133	3.06	20	
4,4'-DDT [2C]	25.8703	2.0	16.6667	6.00817	119	26 - 133	1.72	20	
Aldrin	14.9712	1.0	16.6667	ND	89.8	38 - 119	1.78	20	
Aldrin [2C]	15.0670	1.0	16.6667	ND	90.4	38 - 119	0.584	20	
Dieldrin	16.2963	2.0	16.6667	ND	97.8	30 - 120	2.66	20	
Dieldrin [2C]	17.3027	2.0	16.6667	ND	104	30 - 120	1.39	20	
Endrin	16.8412	2.0	16.6667	ND	101	30 - 114	2.10	20	
Endrin [2C]	19.5238	2.0	16.6667	ND	117	30 - 114	0.191	20	M2
gamma-BHC	15.3457	1.0	16.6667	ND	92.1	31 - 122	1.86	20	
gamma-BHC [2C]	15.9943	1.0	16.6667	ND	96.0	31 - 122	2.43	20	
Heptachlor	16.1760	1.0	16.6667	ND	97.1	38 - 123	3.70	20	
Heptachlor [2C]	14.9375	1.0	16.6667	ND	89.6	38 - 123	2.30	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>16.02</i>		<i>16.6667</i>		<i>96.1</i>	<i>32 - 113</i>			
<i>Surrogate: Decachlorobiphenyl [2C]</i>	<i>16.25</i>		<i>16.6667</i>		<i>97.5</i>	<i>32 - 113</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.59</i>		<i>16.6667</i>		<i>87.6</i>	<i>32 - 101</i>			
<i>Surrogate: Tetrachloro-m-xylene [2C]</i>	<i>14.36</i>		<i>16.6667</i>		<i>86.2</i>	<i>32 - 101</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0278 - GCSEMI_PCB/PEST

Blank (B3L0278-BLK2)

Prepared: 12/13/2013 Analyzed: 12/13/2013

Aroclor 1016	ND	0.50				NR			
Aroclor 1221	ND	1.0				NR			
Aroclor 1232	ND	0.50				NR			
Aroclor 1242	ND	0.50				NR			
Aroclor 1248	ND	0.50				NR			
Aroclor 1254	ND	0.50				NR			
Aroclor 1260	ND	0.50				NR			
Aroclor 1262	ND	0.50				NR			
Aroclor 1268	ND	0.50				NR			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.4066</i>		<i>0.500000</i>			<i>81.3</i>	<i>16 - 148</i>		
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.4532</i>		<i>0.500000</i>			<i>90.6</i>	<i>45 - 116</i>		



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0278 - GCSEMI_PCB/PEST (continued)

LCS (B3L0278-BS2)

Prepared: 12/13/2013 Analyzed: 12/13/2013

Aroclor 1016	4.00228	0.50	5.00000		80.0	74 - 100			
Aroclor 1260	4.50006	0.50	5.00000		90.0	78 - 105			
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.3888</i>		<i>0.500000</i>		<i>77.8</i>	<i>16 - 148</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.4334</i>		<i>0.500000</i>		<i>86.7</i>	<i>45 - 116</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0278 - GCSEMI_PCB/PEST (continued)

LCS Dup (B3L0278-BSD2)

Prepared: 12/13/2013 Analyzed: 12/13/2013

Aroclor 1016	3.99184	0.50	5.00000		79.8	74 - 100	0.261	20	
Aroclor 1260	4.48938	0.50	5.00000		89.8	78 - 105	0.238	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>0.3935</i>		<i>0.500000</i>		<i>78.7</i>	<i>16 - 148</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>0.4328</i>		<i>0.500000</i>		<i>86.6</i>	<i>45 - 116</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST

Blank (B3L0329-BLK2)

Prepared: 12/16/2013 Analyzed: 12/17/2013

Aroclor 1016	ND	16				NR			
Aroclor 1221	ND	16				NR			
Aroclor 1232	ND	16				NR			
Aroclor 1242	ND	16				NR			
Aroclor 1248	ND	16				NR			
Aroclor 1254	ND	16				NR			
Aroclor 1260	ND	16				NR			
Aroclor 1262	ND	16				NR			
Aroclor 1268	ND	16				NR			
<i>Surrogate: Decachlorobiphenyl</i>	<i>15.57</i>		<i>16.6667</i>			<i>93.4</i>		<i>16 - 152</i>	
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.45</i>		<i>16.6667</i>			<i>86.7</i>		<i>38 - 131</i>	



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST (continued)

LCS (B3L0329-BS2)

Prepared: 12/16/2013 Analyzed: 12/17/2013

Aroclor 1016	126.542	16	166.667		75.9	68 - 100			
Aroclor 1260	137.890	16	166.667		82.7	70 - 105			
<i>Surrogate: Decachlorobiphenyl</i>	<i>15.47</i>		<i>16.6667</i>		<i>92.8</i>	<i>16 - 152</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>14.09</i>		<i>16.6667</i>		<i>84.5</i>	<i>38 - 131</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST (continued)

Matrix Spike (B3L0329-MS2)

Source: 1303936-34

Prepared: 12/16/2013 Analyzed: 12/17/2013

Aroclor 1016	142.594	16	166.667	ND	85.6	37 - 131			
Aroclor 1260	158.506	16	166.667	ND	95.1	44 - 133			
<i>Surrogate: Decachlorobiphenyl</i>	<i>17.87</i>		<i>16.6667</i>		<i>107</i>	<i>16 - 152</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>15.49</i>		<i>16.6667</i>		<i>92.9</i>	<i>38 - 131</i>			



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Polychlorinated Biphenyls by EPA 8082 - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0329 - GCSEMI_PCB/PEST (continued)

Matrix Spike Dup (B3L0329-MSD2)

Source: 1303936-34

Prepared: 12/16/2013 Analyzed: 12/17/2013

Aroclor 1016	145.379	16	166.667	ND	87.2	37 - 131	1.93	20	
Aroclor 1260	162.253	16	166.667	ND	97.4	44 - 133	2.34	20	
<i>Surrogate: Decachlorobiphenyl</i>	<i>18.07</i>		<i>16.6667</i>		<i>108</i>	<i>16 - 152</i>			
<i>Surrogate: Tetrachloro-m-xylene</i>	<i>15.75</i>		<i>16.6667</i>		<i>94.5</i>	<i>38 - 131</i>			



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Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
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Batch B3L0349 - MSSEMI_ISOTOPEDILN

Blank (B3L0349-BLK1)

Prepared: 12/17/2013 Analyzed: 12/17/2013

2-Methylnaphthalene	ND	0.20				NR			
Acenaphthene	ND	0.20				NR			
Acenaphthylene	ND	0.20				NR			
Anthracene	ND	0.20				NR			
Benzo(a)anthracene	ND	0.20				NR			
Benzo(a)pyrene	ND	0.20				NR			
Benzo(b)fluoranthene	ND	0.20				NR			
Benzo(g,h,i)perylene	ND	0.20				NR			
Benzo(k)fluoranthene	ND	0.20				NR			
Chrysene	ND	0.20				NR			
Dibenz(a,h)anthracene	ND	0.20				NR			
Fluoranthene	ND	0.20				NR			
Fluorene	ND	0.20				NR			
Indeno(1,2,3-cd)pyrene	ND	0.20				NR			
Naphthalene	ND	0.20				NR			
Phenanthrene	ND	0.20				NR			
Pyrene	ND	0.20				NR			
<hr/>									
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0.6364</i>		<i>1.00000</i>			<i>63.6</i>		<i>25 - 126</i>	
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.7551</i>		<i>1.00000</i>			<i>75.5</i>		<i>41 - 123</i>	
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.4595</i>		<i>1.00000</i>			<i>45.9</i>		<i>37 - 139</i>	
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0.7248</i>		<i>1.00000</i>			<i>72.5</i>		<i>67 - 135</i>	



Certificate of Analysis

The Planning Center
 2850 Inland Empire Blvd., Suite B
 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0349 - MSSEMI_ISOTOPEDILN (continued)

LCS (B3L0349-BS1)

Prepared: 12/17/2013 Analyzed: 12/17/2013

Acenaphthene	0.733410	0.20	1.00000		73.3	49 - 99			
Phenanthrene	0.808500	0.20	1.00000		80.8	57 - 108			
Pyrene	0.980100	0.20	1.00000		98.0	69 - 102			
<hr/>									
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0.6499</i>		<i>1.00000</i>		<i>65.0</i>	<i>25 - 126</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.7618</i>		<i>1.00000</i>		<i>76.2</i>	<i>41 - 123</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.4961</i>		<i>1.00000</i>		<i>49.6</i>	<i>37 - 139</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0.7548</i>		<i>1.00000</i>		<i>75.5</i>	<i>67 - 135</i>			



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 Reported : 01/08/2014

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0349 - MSSEMI_ISOTOPEDILN (continued)

LCS Dup (B3L0349-BSD1)

Prepared: 12/17/2013 Analyzed: 12/17/2013

Acenaphthene	0.773880	0.20	1.00000		77.4	49 - 99	5.37	20	
Phenanthrene	0.831780	0.20	1.00000		83.2	57 - 108	2.84	20	
Pyrene	0.990920	0.20	1.00000		99.1	69 - 102	1.10	20	
<hr/>									
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>0.6374</i>		<i>1.00000</i>		<i>63.7</i>	<i>25 - 126</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>0.7921</i>		<i>1.00000</i>		<i>79.2</i>	<i>41 - 123</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>0.5181</i>		<i>1.00000</i>		<i>51.8</i>	<i>37 - 139</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>0.7092</i>		<i>1.00000</i>		<i>70.9</i>	<i>67 - 135</i>			



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 Report To : Denise Clendening
 Reported : 01/08/2014

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/L)	PQL (ug/L)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	------------------	---------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0350 - MSSEMI

Blank (B3L0350-BLK1)

Prepared: 12/17/2013 Analyzed: 12/17/2013

2-Methylnaphthalene	ND	5.0				NR			
Acenaphthene	ND	5.0				NR			
Acenaphthylene	ND	5.0				NR			
Anthracene	ND	5.0				NR			
Benzo(a)anthracene	ND	5.0				NR			
Benzo(a)pyrene	ND	5.0				NR			
Benzo(b)fluoranthene	ND	5.0				NR			
Benzo(g,h,i)perylene	ND	5.0				NR			
Benzo(k)fluoranthene	ND	5.0				NR			
Chrysene	ND	5.0				NR			
Dibenz(a,h)anthracene	ND	5.0				NR			
Fluoranthene	ND	5.0				NR			
Fluorene	ND	5.0				NR			
Indeno(1,2,3-cd)pyrene	ND	5.0				NR			
Naphthalene	ND	5.0				NR			
Phenanthrene	ND	5.0				NR			
Pyrene	ND	5.0				NR			
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>21.79</i>		<i>33.3333</i>		<i>65.4</i>	<i>28 - 96</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>24.94</i>		<i>33.3333</i>		<i>74.8</i>	<i>36 - 113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>15.34</i>		<i>33.3333</i>		<i>46.0</i>	<i>29 - 106</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>24.65</i>		<i>33.3333</i>		<i>73.9</i>	<i>39 - 138</i>			



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 Report To : Denise Clendening
 Reported : 01/08/2014

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0350 - MSSEMI (continued)

LCS (B3L0350-BS1)

Prepared: 12/17/2013 Analyzed: 12/17/2013

Acenaphthene	24.3803	5.0	33.3333		73.1	50 - 93			
Phenanthrene	24.5783	5.0	33.3333		73.7	46 - 98			
Pyrene	32.3713	5.0	33.3333		97.1	52 - 112			
<hr/>									
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>21.77</i>		<i>33.3333</i>		<i>65.3</i>	<i>28 - 96</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>25.25</i>		<i>33.3333</i>		<i>75.7</i>	<i>36 - 113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>18.15</i>		<i>33.3333</i>		<i>54.4</i>	<i>29 - 106</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>24.63</i>		<i>33.3333</i>		<i>73.9</i>	<i>39 - 138</i>			



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Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0350 - MSSEMI (continued)

Matrix Spike (B3L0350-MS1)

Source: 1303936-61

Prepared: 12/17/2013 Analyzed: 12/17/2013

Acenaphthene	25.5440	5.0	33.3333	ND	76.6	45 - 103			
Phenanthrene	27.7140	5.0	33.3333	ND	83.1	43 - 115			
Pyrene	32.8733	5.0	33.3333	ND	98.6	49 - 125			
<hr/>									
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>21.14</i>		<i>33.3333</i>		<i>63.4</i>	<i>28 - 96</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>25.42</i>		<i>33.3333</i>		<i>76.3</i>	<i>36 - 113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>17.84</i>		<i>33.3333</i>		<i>53.5</i>	<i>29 - 106</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>24.35</i>		<i>33.3333</i>		<i>73.1</i>	<i>39 - 138</i>			



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 Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD
 Report To : Denise Clendening
 Reported : 01/08/2014

Semivolatile Organic Compounds by EPA 8270/SIM - Quality Control (cont'd)

Analyte	Result (ug/kg)	PQL (ug/kg)	Spike Level	Source Result	% Rec	% Rec Limits	RPD	RPD Limit	Notes
---------	-------------------	----------------	----------------	------------------	-------	-----------------	-----	--------------	-------

Batch B3L0350 - MSSEMI (continued)

Matrix Spike Dup (B3L0350-MSD1)

Source: 1303936-61

Prepared: 12/17/2013 Analyzed: 12/17/2013

Acenaphthene	28.2897	5.0	33.3333	ND	84.9	45 - 103	10.2	20	
Phenanthrene	28.5077	5.0	33.3333	ND	85.5	43 - 115	2.82	20	
Pyrene	33.7590	5.0	33.3333	ND	101	49 - 125	2.66	20	
<i>Surrogate: 1,2-Dichlorobenzene-d4</i>	<i>22.59</i>		<i>33.3333</i>		<i>67.8</i>	<i>28 - 96</i>			
<i>Surrogate: 2-Fluorobiphenyl</i>	<i>28.63</i>		<i>33.3333</i>		<i>85.9</i>	<i>36 - 113</i>			
<i>Surrogate: Nitrobenzene-d5</i>	<i>19.67</i>		<i>33.3333</i>		<i>59.0</i>	<i>29 - 106</i>			
<i>Surrogate: 4-Terphenyl-d14</i>	<i>24.21</i>		<i>33.3333</i>		<i>72.6</i>	<i>39 - 138</i>			



Certificate of Analysis

The Planning Center

2850 Inland Empire Blvd., Suite B

Ontario, CA 91764

Project Number : High School 5, Option A Irvine, CA, ISD

Report To : Denise Clendening

Reported : 01/08/2014

Notes and Definitions

M2	Matrix spike recovery outside of acceptance limit due to possible matrix interference. The analytical batch was validated by the laboratory control sample.
ND	Analyte is not detected at or above the Practical Quantitation Limit (PQL). When client requests quantitation against MDL, analyte is not detected at or above the Method Detection Limit (MDL)
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
NR	Not Reported
RPD	Relative Percent Difference
CA1	CA-NELAP (CDPH)
CA2	CA-ELAP (CDPH)
OR1	OR-NELAP (OSPHL)
TX1	TX-NELAP (TCEQ)

Notes:

- (1) The reported MDL and PQL are based on prep ratio variation and analytical dilution.
- (2) The suffix [2C] of specific analytes signifies that the reported result is taken from the instrument's second column.

Report Prepared for:

Diane Galvan
Advanced Technology Labs
3275 Walnut Avenue
Signal Hill CA 90755

**REPORT OF
LABORATORY
ANALYSIS FOR
PCDD/PCDF**

Report Information:

Pace Project #: 10252382
Sample Receipt Date: 12/13/2013
Client Project #: 1303936
Client Sub PO #: SC08349
State Cert #: 01155CA

Invoicing & Reporting Options:

The report provided has been invoiced as a Level 2 PCDD/PCDF Report. If an upgrade of this report package is requested, an additional charge may be applied.

Please review the attached invoice for accuracy and forward any questions to Brittany Hansen, your Pace Project Manager.

This report has been reviewed by:



January 08, 2014

Brittany Hansen, Project Manager
(612) 607-6429
(612) 607-6444 (fax)
brittany.hansen@pacelabs.com

Report Prepared Date:

January 8, 2014



Report of Laboratory Analysis

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The results relate only to the samples included in this report.



DISCUSSION

This report presents the results from the analyses performed on four samples submitted by a representative of Advanced Technology Laboratories. The samples were analyzed for the presence or absence of polychlorodibenzo-p-dioxins (PCDDs) and polychlorodibenzofurans (PCDFs) using a modified version of USEPA Method 8290. The reporting limits were set to correspond to the lowest calibration points and a nominal 10-gram sample amount.

The recoveries of the isotopically-labeled PCDD/PCDF internal standards in the sample extracts ranged from 68-94%. All of the labeled standard recoveries obtained for this project were within the 40-135% target range specified in Method 8290. Also, since the quantification of the native 2,3,7,8-substituted congeners was based on isotope dilution, the data were automatically corrected for variation in recovery and accurate values were obtained.

A laboratory method blank was prepared and analyzed with the sample batch as part of our routine quality control procedures. The results show the blank to be free of PCDDs and PCDFs at the reporting limits. This indicates that the sample preparation procedures did not significantly impact the results reported for the field samples.

A laboratory spike sample was also prepared with the sample batch using clean sand that had been fortified with native standard materials. The results show that the spiked native compounds were recovered at 102-123%, indicating a high degree of accuracy for these determinations. Matrix spikes were prepared with the sample batch using sample material from a separate project; results from these analyses will be provided upon request.

The response obtained for the labeled OCDD congener in calibration standard analysis U140108A_16 was outside the target range. As specified in the method, the average of the daily response factors for this compound was used in the calculations for the samples from this runshift. The affected values were flagged "Y" on the results tables. It should be noted that the accuracy of the native congener determinations was not impacted by this deviation.

REPORT OF LABORATORY ANALYSIS

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Minnesota Laboratory Certifications

Authority	Certificate #	Authority	Certificate #
Alabama	40770	Mississippi	MN00064
Alaska	MN00064	Montana	92
Arizona	AZ0014	Nebraska	
Arkansas	88-0680	Nevada	MN_00064_200
California	01155CA	New Jersey (NE)	MN002
Colorado	MN00064	New Mexico	MN00064
Connecticut	PH-0256	New York (NEL)	11647
EPA Region 5	WD-15J	North Carolina	27700
EPA Region 8	8TMS-Q	North Dakota	R-036
Florida (NELAP)	E87605	Ohio	4150
Georgia (DNR)	959	Oklahoma	D9922
Guam	959	Oregon (ELAP)	MN200001-005
Hawaii	SLD	Oregon (OREL)	MN300001-001
Idaho	MN00064	Pennsylvania	68-00563
Illinois	200012	Saipan	MP0003
Indiana	C-MN-01	South Carolina	74003001
Indiana	C-MN-01	Tennessee	2818
Iowa	368	Tennessee	02818
Kansas	E-10167	Texas	T104704192-08
Kentucky	90062	Utah (NELAP)	PAM
Louisiana	03086	Virginia	00251
Maine	2007029	Washington	C755
Maryland	322	West Virginia	9952C
Michigan	9909	Wisconsin	999407970
Minnesota	027-053-137	Wyoming	8TMS-Q

REPORT OF LABORATORY ANALYSIS

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Appendix A

Sample Management

10252382
1128

SUBCONTRACT ORDER

Work Order: 1303936

SENDING LABORATORY:

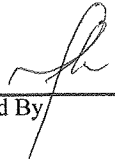
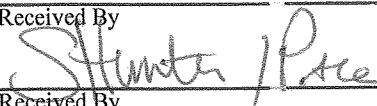
Advanced Technology Laboratories
 3275 Walnut Avenue
 Signal Hill, CA 90755
 Phone: 562.989.4045
 Fax: 562.989.6348
 Project Manager: Diane Galvan (Diane@atlglobal.com)

RECEIVING LABORATORY:

Pace Analytical Services, nc.
 1700 Elm Street, Suite 200
 Minneapolis, MN 55414
 Phone : (612) 607-1700
 Fax: (612) 607-6444
 PO#: SC08349- STANDARD TAT

IMPORTANT : Please include Work Order # and PO # in your invoice.

Analysis	Due	Expires	Sampled	Comments
ATL Lab#: 1303936-18 8290 [Dioxins and Dibenzofurans]	/ B-1@0.5' 01/13/14 17:00	Soil 01/10/14 07:42	12/11/13 07:42	Dioxins/Furans 001
1-Glass Jar - 4 oz				
ATL Lab#: 1303936-19 8290 [Dioxins and Dibenzofurans]	/ B-1@3.0' 01/13/14 17:00	Soil 01/10/14 07:44	12/11/13 07:44	002
1-Glass Jar - 4 oz				
ATL Lab#: 1303936-30 8290 [Dioxins and Dibenzofurans]	/ B-5@0.5' 01/13/14 17:00	Soil 01/10/14 08:48	12/11/13 08:48	003
1-Glass Jar - 4 oz				
ATL Lab#: 1303936-31 8290 [Dioxins and Dibenzofurans]	/ B-5@3.0' 01/13/14 17:00	Soil 01/10/14 08:50	12/11/13 08:50	004
1-Glass Jar - 4 oz				

Released By 	Date 12/12/13	Received By 	Date 12/12/13
Released By	Date	Received By	Date 12/13/13 1021 T=1-2

Sample Condition Upon Receipt

Client Name: Advanced Tech

Project #: **WO# : 10252382**



Courier: Fed Ex UPS USPS Client
 Commercial Pace Other: _____

Tracking Number: 7173 8653 8779

Custody Seal on Cooler/Box Present? Yes No Seals Intact? Yes No Optional: Proj. Due Date: _____ Proj. Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other: _____ Temp Blank? Yes No

Thermom. Used: 80512447 72337080 B88A912167504 B88A9132521491 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temp Read (°C): 1.5 Cooler Temp Corrected (°C): 1.2 Biological Tissue Frozen? Yes No N/A
 Temp should be above freezing to 6°C Correction Factor: -0.3 Date and Initials of Person Examining Contents: 12/13/13 SH

Comments: _____

Chain of Custody Present?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name and/or Signature on COC?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72 hr)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered Volume Received for Dissolved Tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: <u>SL</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	12. <u>collected on</u> <u>No time on COC or sample</u> <u>12/13</u>
All containers needing acid/base preservation have been checked? Noncompliances are noted in 13. All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>12) Exceptions: VOA, Coliform, TOC, Oil and Grease, WI-DRO (water) DOC	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl Sample # _____ Initial when completed: _____ Lot # of added preservative: _____
Headspace in VOA Vials (>6mm)?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Trip Blank Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Custody Seals Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):	_____	

CLIENT NOTIFICATION/RESOLUTION

Field Data Required? Yes No

Person Contacted: _____ Date/Time: _____

Comments/Resolution: _____

Project Manager Review: EWAT

Date: 12/16/13

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Reporting Flags

- A = Reporting Limit based on signal to noise
- B = Less than 10x higher than method blank level
- C = Result obtained from confirmation analysis
- D = Result obtained from analysis of diluted sample
- E = Exceeds calibration range
- I = Interference present
- J = Estimated value
- Nn = Value obtained from additional analysis
- P = PCDE Interference
- R = Recovery outside target range
- S = Peak saturated
- U = Analyte not detected
- V = Result verified by confirmation analysis
- X = %D Exceeds limits
- Y = Calculated using average of daily RFs
- * = See Discussion

REPORT OF LABORATORY ANALYSIS

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Appendix B

Sample Analysis Summary



Method 8290 Sample Analysis Results

Client - Advanced Technology Labs

Client's Sample ID	1303936-18		
Lab Sample ID	10252382001-R		
Filename	U140108A_03		
Injected By	SMT		
Total Amount Extracted	11.0 g	Matrix	Soil
% Moisture	8.1	Dilution	NA
Dry Weight Extracted	10.1 g	Collected	12/11/2013 07:42
ICAL ID	U131104	Received	12/13/2013 10:21
CCal Filename(s)	U140107B_16 & U140108A_16	Extracted	01/03/2014 19:30
Method Blank ID	BLANK-38858	Analyzed	01/08/2014 04:21

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	71
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	85
				1,2,3,4,7,8-HxCDF-13C	2.00	78
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	82
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	75
				1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	71
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	87
				1,2,3,4,7,8,9-HpCDF-13C	2.00	78
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	88
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	89 Y
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.045 ng/Kg		
Total HpCDF	ND	----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	8.1	----	5.0			
OCDF	ND	----	10.0			
OCDD	45.0	----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Advanced Technology Labs

Client's Sample ID	1303936-19		
Lab Sample ID	10252382002-R		
Filename	U140108A_04		
Injected By	SMT		
Total Amount Extracted	10.9 g	Matrix	Soil
% Moisture	5.4	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	12/11/2013 07:44
ICAL ID	U131104	Received	12/13/2013 10:21
CCal Filename(s)	U140107B_16 & U140108A_16	Extracted	01/03/2014 19:30
Method Blank ID	BLANK-38858	Analyzed	01/08/2014 05:06

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	73
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	87
				1,2,3,7,8-PeCDF-13C	2.00	76
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	88
				1,2,3,4,7,8-HxCDF-13C	2.00	82
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	82
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	84
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	76
				1,2,3,4,7,8-HxCDD-13C	2.00	81
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	85
				1,2,3,4,7,8,9-HpCDF-13C	2.00	76
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	89
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	86 Y
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	81
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	ND	----	5.0			
OCDF	ND	----	10.0			
OCDD	ND	----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Advanced Technology Labs

Client's Sample ID	1303936-30		
Lab Sample ID	10252382003-R		
Filename	U140108A_05		
Injected By	SMT		
Total Amount Extracted	10.8 g	Matrix	Soil
% Moisture	4.2	Dilution	NA
Dry Weight Extracted	10.3 g	Collected	12/11/2013 08:48
ICAL ID	U131104	Received	12/13/2013 10:21
CCal Filename(s)	U140107B_16 & U140108A_16	Extracted	01/03/2014 19:30
Method Blank ID	BLANK-38858	Analyzed	01/08/2014 05:51

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	80
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	94
				1,2,3,7,8-PeCDF-13C	2.00	80
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	78
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	81
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	83
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	85
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	77
				1,2,3,4,7,8-HxCDD-13C	2.00	85
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	75
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	87
				1,2,3,4,7,8,9-HpCDF-13C	2.00	77
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	86
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	87 Y
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	92
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.031 ng/Kg		
Total HpCDF	ND	----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	ND	----	5.0			
OCDF	ND	----	10.0			
OCDD	31	----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Y = Calculated using average of daily RFs

REPORT OF LABORATORY ANALYSIS

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Method 8290 Sample Analysis Results

Client - Advanced Technology Labs

Client's Sample ID	1303936-31		
Lab Sample ID	10252382004-R		
Filename	U140108A_06		
Injected By	SMT		
Total Amount Extracted	5.40 g	Matrix	Soil
% Moisture	6.2	Dilution	NA
Dry Weight Extracted	5.07 g	Collected	12/11/2013 08:50
ICAL ID	U131104	Received	12/13/2013 10:21
CCal Filename(s)	U140107B_16 & U140108A_16	Extracted	01/03/2014 19:30
Method Blank ID	BLANK-38858	Analyzed	01/08/2014 06:37

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	----	1.0	2,3,7,8-TCDF-13C	2.00	76
Total TCDF	ND	----	1.0	2,3,7,8-TCDD-13C	2.00	88
				1,2,3,7,8-PeCDF-13C	2.00	79
2,3,7,8-TCDD	ND	----	1.0	2,3,4,7,8-PeCDF-13C	2.00	75
Total TCDD	ND	----	1.0	1,2,3,7,8-PeCDD-13C	2.00	87
				1,2,3,4,7,8-HxCDF-13C	2.00	77
1,2,3,7,8-PeCDF	ND	----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	77
2,3,4,7,8-PeCDF	ND	----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	79
Total PeCDF	ND	----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	71
				1,2,3,4,7,8-HxCDD-13C	2.00	80
1,2,3,7,8-PeCDD	ND	----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	68
Total PeCDD	ND	----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	81
				1,2,3,4,7,8,9-HpCDF-13C	2.00	74
1,2,3,4,7,8-HxCDF	ND	----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	82
1,2,3,6,7,8-HxCDF	ND	----	5.0	OCDD-13C	4.00	82 Y
2,3,4,6,7,8-HxCDF	ND	----	5.0			
1,2,3,7,8,9-HxCDF	ND	----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	----	5.0	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	----	5.0			
1,2,3,7,8,9-HxCDD	ND	----	5.0			
Total HxCDD	ND	----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	----	5.0			
Total HpCDD	ND	----	5.0			
OCDF	ND	----	10.0			
OCDD	ND	----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit.

ND = Not Detected
NA = Not Applicable
NC = Not Calculated

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Method 8290 Blank Analysis Results

Lab Sample ID	BLANK-38858	Matrix	Solid
Filename	U140107B_09	Dilution	NA
Total Amount Extracted	20.2 g	Extracted	01/03/2014 19:30
ICAL ID	U131104	Analyzed	01/07/2014 20:46
CCal Filename(s)	U140107B_01 & U140107B_16	Injected By	SMT

Native Isomers	Conc ng/Kg	EMPC ng/Kg	RL ng/Kg	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	ND	-----	1.0	2,3,7,8-TCDF-13C	2.00	74
Total TCDF	ND	-----	1.0	2,3,7,8-TCDD-13C	2.00	86
				1,2,3,7,8-PeCDF-13C	2.00	83
2,3,7,8-TCDD	ND	-----	1.0	2,3,4,7,8-PeCDF-13C	2.00	80
Total TCDD	ND	-----	1.0	1,2,3,7,8-PeCDD-13C	2.00	93
				1,2,3,4,7,8-HxCDF-13C	2.00	86
1,2,3,7,8-PeCDF	ND	-----	5.0	1,2,3,6,7,8-HxCDF-13C	2.00	85
2,3,4,7,8-PeCDF	ND	-----	5.0	2,3,4,6,7,8-HxCDF-13C	2.00	87
Total PeCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDF-13C	2.00	78
				1,2,3,4,7,8-HxCDD-13C	2.00	86
1,2,3,7,8-PeCDD	ND	-----	5.0	1,2,3,6,7,8-HxCDD-13C	2.00	74
Total PeCDD	ND	-----	5.0	1,2,3,4,6,7,8-HpCDF-13C	2.00	79
				1,2,3,4,7,8,9-HpCDF-13C	2.00	72
1,2,3,4,7,8-HxCDF	ND	-----	5.0	1,2,3,4,6,7,8-HpCDD-13C	2.00	80
1,2,3,6,7,8-HxCDF	ND	-----	5.0	OCDD-13C	4.00	55
2,3,4,6,7,8-HxCDF	ND	-----	5.0			
1,2,3,7,8,9-HxCDF	ND	-----	5.0	1,2,3,4-TCDD-13C	2.00	NA
Total HxCDF	ND	-----	5.0	1,2,3,7,8,9-HxCDD-13C	2.00	NA
1,2,3,4,7,8-HxCDD	ND	-----	5.0	2,3,7,8-TCDD-37Cl4	0.20	84
1,2,3,6,7,8-HxCDD	ND	-----	5.0			
1,2,3,7,8,9-HxCDD	ND	-----	5.0			
Total HxCDD	ND	-----	5.0			
1,2,3,4,6,7,8-HpCDF	ND	-----	5.0	Total 2,3,7,8-TCDD		
1,2,3,4,7,8,9-HpCDF	ND	-----	5.0	Equivalence: 0.00 ng/Kg		
Total HpCDF	ND	-----	5.0	(Using ITE Factors)		
1,2,3,4,6,7,8-HpCDD	ND	-----	5.0			
Total HpCDD	ND	-----	5.0			
OCDF	ND	-----	10.0			
OCDD	ND	-----	10.0			

Conc = Concentration (Totals include 2,3,7,8-substituted isomers).
EMPC = Estimated Maximum Possible Concentration
RL = Reporting Limit

Results reported on a dry weight basis and are valid to no more than 2 significant figures.

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Method 8290 Laboratory Control Spike Results

Lab Sample ID	LCS-38859	Matrix	Solid
Filename	U140107B_02	Dilution	NA
Total Amount Extracted	20.5 g	Extracted	01/03/2014 19:30
ICAL ID	U131104	Analyzed	01/07/2014 15:29
CCal Filename(s)	U140107B_01 & U140107B_16	Injected By	SMT
Method Blank ID	BLANK-38858		

Native Isomers	Qs (ng)	Qm (ng)	% Rec.	Internal Standards	ng's Added	Percent Recovery
2,3,7,8-TCDF	0.20	0.24	120	2,3,7,8-TCDF-13C	2.0	74
Total TCDF				2,3,7,8-TCDD-13C	2.0	86
				1,2,3,7,8-PeCDF-13C	2.0	75
2,3,7,8-TCDD	0.20	0.21	105	2,3,4,7,8-PeCDF-13C	2.0	74
Total TCDD				1,2,3,7,8-PeCDD-13C	2.0	85
				1,2,3,4,7,8-HxCDF-13C	2.0	79
1,2,3,7,8-PeCDF	1.0	1.2	118	1,2,3,6,7,8-HxCDF-13C	2.0	82
2,3,4,7,8-PeCDF	1.0	1.1	114	2,3,4,6,7,8-HxCDF-13C	2.0	83
Total PeCDF				1,2,3,7,8,9-HxCDF-13C	2.0	77
				1,2,3,4,7,8-HxCDD-13C	2.0	80
1,2,3,7,8-PeCDD	1.0	1.0	102	1,2,3,6,7,8-HxCDD-13C	2.0	76
Total PeCDD				1,2,3,4,6,7,8-HpCDF-13C	2.0	85
				1,2,3,4,7,8,9-HpCDF-13C	2.0	77
1,2,3,4,7,8-HxCDF	1.0	1.2	118	1,2,3,4,6,7,8-HpCDD-13C	2.0	84
1,2,3,6,7,8-HxCDF	1.0	1.2	115	OCDD-13C	4.0	55
2,3,4,6,7,8-HxCDF	1.0	1.1	112			
1,2,3,7,8,9-HxCDF	1.0	1.1	113	1,2,3,4-TCDD-13C	2.0	NA
Total HxCDF				1,2,3,7,8,9-HxCDD-13C	2.0	NA
1,2,3,4,7,8-HxCDD	1.0	1.2	123	2,3,7,8-TCDD-37Cl4	0.20	89
1,2,3,6,7,8-HxCDD	1.0	1.2	122			
1,2,3,7,8,9-HxCDD	1.0	1.2	122			
Total HxCDD						
1,2,3,4,6,7,8-HpCDF	1.0	1.2	118			
1,2,3,4,7,8,9-HpCDF	1.0	1.1	108			
Total HpCDF						
1,2,3,4,6,7,8-HpCDD	1.0	1.1	107			
Total HpCDD						
OCDF	2.0	2.3	114			
OCDD	2.0	2.4	121			

Qs = Quantity Spiked
Qm = Quantity Measured
Rec. = Recovery (Expressed as Percent)
R = Recovery outside of target range

Y = RF averaging used in calculations
Nn = Value obtained from additional analysis
NA = Not Applicable
* = See Discussion

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CHAIN OF CUSTODY RECORD

Pg 1 of 1

ADVANCED TECHNOLOGY LABORATORIES
 3275 Walnut Ave., Signal Hill, CA 90755
 Tel: (562) 989-4045 • Fax: (562) 989-4040

Submittal (Print):
 Signature:

Quote #:
 As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.

Method of Transport:
 Client ATL
 FedEx OnTrac
 GSO Other:

FOR LABORATORY USE ONLY:
 Sample Condition Upon Receipt
 1. CHILLED Y N 4. SEALED Y N
 2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
 3. CONTAINER INTACT Y N 6. PRESERVED Y N

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: The Planning Center / DCBE
 Address: 2850 Inland Empire Blvd. Suite B
 City: Ontario State: CA Zip Code: 91764 TEL: 909 989 4449 FAX:

Project Name: High School 5, Option A Project #: ISSD-28.0 Sampler: MIKE WATSON
 Relinquished by: [Signature] (Signature and Printed Name) Date: 12/11/13 Time: 1:00
 Relinquished by: [Signature] (Signature and Printed Name) Date: 12/11/13 Time: 1:00
 Relinquished by: [Signature] (Signature and Printed Name) Date: 12/11/13 Time: 1:00

Send Report To:
 Attn: Sama E-mail:
 Company:
 Address:
 City: State: Zip:

Special Instructions/Comments:
C=composite
X=discrete

Sample/Records - Archival & Disposal
 Unless otherwise requested by client, all Samples and Hardcopy will be disposed Forty-five(45) days after generation of report - electronic copies retained for five(5) years.
Storage Fees (applies when storage is requested):
 Sample 1: Forty-five(45) Days Complimentary - \$2.00 / sample / mo thereafter.
 Hardcopy Reports \$17.50 per report.

Lab No.	Sample I.D. / Location	Date	Time
1	B-4900.5	12/13	1408
2	B-4903.0		1410
3	B-4800.5		1419
4	B-4803.0		1421
5	B-4200.5		1428
6	B-4203.0		1430
7	B-4300.5		1438
8	B-4303.0		1440
9	B-4400.5		1450
10	B-4403.0		1452

BUSINESS HOURS
 8:30 am to 5:30 pm
 Samples Submitted AFTER 3:30 PM, are considered received the following business day at 8:30 AM.

Weekend, Holiday, Off Hours Work ASK for QUOTE

CIRCLE APPROPRIATE MATRIX

Container(s)	TAT #	Type
300 (Anions) / 314 (Perchlorate)		
719-218.6 (Hex. Chromium)		
6020B-200.8-1640 Metals		
6010B-200.7 CAM Metals		
6010B-200.8-1640 Metals		
8082 PCBs		
8087 Org(C)/8141 Org(PA) Pest		
8015B(DRO)/8015B(HCID)		
8015B(DRO) / 8310(PAHs)		
8270B-825(BNA) / 8310(PAHs)		
8015B (GRO) / 8021 (BTEX)		
8260-824 (Volatiles)		

CIRCLE OR Write IN Analyses Needed

RESERVATION

Container(s)	TAT #	Type	Q / A / Q C
300 (Anions) / 314 (Perchlorate)			RTINE <input type="checkbox"/> CT <input type="checkbox"/> Legal <input type="checkbox"/> SWRCB <input type="checkbox"/> Logcode <input type="checkbox"/> OTHER
719-218.6 (Hex. Chromium)			REMARKS
6020B-200.8-1640 Metals			
6010B-200.7 CAM Metals			
6010B-200.8-1640 Metals			
8082 PCBs			
8087 Org(C)/8141 Org(PA) Pest			
8015B(DRO)/8015B(HCID)			
8015B(DRO) / 8310(PAHs)			
8270B-825(BNA) / 8310(PAHs)			
8015B (GRO) / 8021 (BTEX)			
8260-824 (Volatiles)			

Container Types: 1=Tube 2=VOA 3=Liter 4=Pin 5=Jar 6=Tedlar 7=Canister

Material: 1=Glass 2=Plastic 3=Metal

Preservatives: 1=HCl, 2=HNO₃ 3=H₂SO₄ 4=4°C 5=Zn(Ac₂) 6=NaOH 7=Na₂S₂O₄

For RUSH TOLP/STLC, add 2 days to respective TAT.
 Subcon. TAT is 10-15 business days, Dioxin and Furans 21 business days.

CHAIN OF CUSTODY RECORD

ADVANCED TECHNOLOGY LABORATORIES

3275 Walnut Ave., Signal Hill, CA 90755
Tel: (562) 989-4045 • Fax: (562) 989-4040

Submitter - Please complete all SHADED areas and include QUOTE # above to ensure proper invoicing.

Client: The Planning Center/Docket Denise Clemens

Attn: Denise Clemens

Project Name: High School #3, Option A Project #1: ISD-28.0

Relinquished by: Mike Watson

Relinquished by: Mike Watson

Relinquished by: Mike Watson

Relinquished by: Mike Watson

P.O.#:

Quote #:

As the authorized agent of the below named company, I hereby purchase testing services from ATL as dictated below and guarantee payment in full.

Submitter (Print): Mike Watson

Signature: [Signature]

Address: 2850 Inland Empire Blvd Site B

City: Ontario State: CA Zip Code: 91764

Sampler: Mike Watson

Date: 12/11/13 Time: 1605

Date: 12/11/13 Time: 1802

Date: _____ Time: _____

Special Instructions/Comments:
C= composite
X= discrete

Sample/Records - Archival & Disposal
Unless otherwise requested by client, all Samples and Hardcopy will be disposed Forty-five(45) days after generation of report- electronic copies retained for five(6) years
Storage Fees (applies when storage is requested):
Sample : Forty-five(45) Days Complimentary - \$2.00 / sample / mo thereafter.
Hardcopy Reports \$17.50 per report.

T	DESCRIPTION	DATE	TIME
1	B-45E0.5	12/7/13	1456
2	B-45E0.5	12/7/13	1458
3	B-39E0.5	12/7/13	1505
4	B-39E0.5	12/7/13	1507
5	B-32E0.5	12/7/13	1513
6	B-32E0.5	12/7/13	1515
7	E8121013	12/7/13	1525
8	B-1C0.5	12/11/13	0742
9	B-1E3.0	12/11/13	0744
10	B-1DPE0.5	12/11/13	0746

Method of Transport
 Client ATL OnTrac
 FedEx GSO Other:

Sample Condition Upon Receipt
1. CHILLED Y N 4. SEALED Y N
2. HEADSPACE (VOA) Y N 5. # OF SPLS MATCH COC Y N
3. CONTAINER INTACT Y N 6. PRESERVED Y N

TEL: 909 989 4449
FAX: _____
State: CA

Bill To:
Attn: Same E-mail: _____
Company: _____
Address: _____
City: _____ State: _____ Zip: _____

Container Types: 1=Tube 2=VOA 3=Liter 4=Pint 5=Jar 6=Tedlar 7=Canister 8=Vial 9=Other
Containers: 1=HCl, 2=HNO3 3=H2SO4 4=4°C 5=Zn(Ac)2 6=NaOH 7=Na2SO4

CIRCLE OR WRITE IN ANALYSES NEEDED	8260-824 (Nitrates)	8015B (GRO) / 8021 (BTEX)	8270B (Pesticides) / 8141 (OrgPO4 Pest)	8015B (DRO) / 8015B (HClD)	8082 PCBs	6010B-200.7 CAM Metals	6020B-200.8-1540 Metals	719-218.6 (Hex. Chromium)	300 (Anions) / 314 (Perchlorate)	SOLIDMENTS/SLUDGE	WATER-DRINKING/FILTERS	WATER-STORMWASTE	ACQUOS/LAYERED-OIL	RESERVATION	QA/QC
	X	X		X					X					5 1 1 2 4	see 637
	X	X		X					X					see 624	
	X	X		X					X					see 624	
	X	X		X					X						
	X	X		X					X						
	X	X		X					X						
	X	X		X					X						

Material: 1=Glass 2=Plastic 3=Metal
TAT 10 10% DISCOUNT 10th BUSINESS DAY 5:30 PM
TAT 5 NO SURCHARGE 5-7 BUSINESS DAYS 5:30 PM
TAT 4 20% SURCHARGE 4TH BUSINESS DAY 5:30 PM
TAT 3 30% SURCHARGE 3RD BUSINESS DAY 5:30 PM
TAT 2 50% SURCHARGE 2ND BUSINESS DAY 5:30 PM
TAT 1 100% SURCHARGE NEXT BUSINESS DAY 5:30 PM
TAT 0 300% SURCHARGE SAME BUSINESS DAY IF RCVD BY 9:00 AM

Preservatives: 1=HCl, 2=HNO3 3=H2SO4 4=4°C 5=Zn(Ac)2 6=NaOH 7=Na2SO4
For RUSH TCLP/STLC, add 2 days to respective TAT.
Subcom. TAT is 10-15 business days. Dioxin and Furans 21 business days.

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only
ATLCOCC Ver. 20130715

Method of Transport	Condition	Y	N	Condition	Y	N
<input type="checkbox"/> Client	1. CHILLED	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> FedEx	2. HEADSPACE (VGA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> GSO	3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP. DEG C	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: _____	4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>			

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

Attn: _____ Email: _____

SEND REPORT TO: _____ State: _____ Zip: _____

SEND INVOICE TO: _____ State: _____ Zip: _____

Project Name: _____

Project No.: _____

Sampler: _____

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

ITEM	Lab No.	Sample ID / Location	Sample Description	Date	Time	Encircle or Write Requested Analysis	Encircle Sample Matrix	Container	QA/QC	REMARKS	
1	B-1DUPC3.0	B-1DUPC3.0		12/11/13	0748	TO-15 6010 / 7000 (Title 22 Metals) 8082 (PCBs) 8081 (Organochlorine Pesticides) 8270 (Semi-volatiles) SIM 8015 (DRO) 8015 (GRO) 8260 / 624 (Volatiles)	SOIL / SEDIMENT / SLUDGE WATER - DRINKING / GROUND WATER - STORM / WASTE AQUEOUS / LAYERED - OIL	5-Tyr; 6-Diary; 7 = Canister	<input type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RWQCB <input type="checkbox"/> Level IV	5-zn (AQZ); 6-NiOH; 7-Ni; 23-Zn Preservative: 1-HCl; 2-HNO3; 3-H2SO4; 4-CO2	See B-1
2	B-2C0.5	B-2C0.5		12/11/13	0754						See B-1
3	B-2C3.0	B-2C3.0			0756						See B-1
4	B-2DUPC0.5	B-2DUPC0.5			0758						See B-1
5	B-3C0.5	B-3C0.5			0800						See B-1
6	B-3C0.5	B-3C0.5			0834						See B-1
7	B-3C3.0	B-3C3.0			0836						See B-1
8	B-3DUPC0.5	B-3DUPC0.5			0838						See B-1
9	B-3DUPC3.0	B-3DUPC3.0			0840						See B-1
10	B-5E0.5	B-5E0.5			0848	X C X X X X X X X X					See B-1

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Signature: Mike Lewiston Date: 12/11/13

Signature: [Signature] Date: 12/11/13

Signature: [Signature] Date: 12/11/13

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only
 ATLCOC Ver. 20130715

Method of Transport	Sample Conditions Upon Receipt															
<input type="checkbox"/> Client <input type="checkbox"/> FedEx <input type="checkbox"/> GSO <input type="checkbox"/> Other: _____	<table border="1"> <tr> <th>Condition</th> <th>Y</th> <th>N</th> </tr> <tr> <td>1. CHILLED</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>2. HEADSPACE (VOA)</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>3. CONTAINER INTACT</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> <tr> <td>4. SEALED</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> </tr> </table>	Condition	Y	N	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>
Condition	Y	N														
1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>														
2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>														
3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>														
4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>														
<input type="checkbox"/> ATL <input type="checkbox"/> OhTrac	5. # OF SAMPLES MATCH COC <input type="checkbox"/> 6. PRESERVED <input type="checkbox"/> 7. COOLER TEMP. REG. C: <input type="checkbox"/>															

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

Attn: _____ Email: _____

SEND REPORT TO: _____ State: _____ Zip: _____

SEND INVOICE TO: _____ State: _____ Zip: _____

Project Name: _____

Project No.: _____

Sampler: _____

Quote No.: _____

PO #: _____

ITEM	Lab No.	Sample ID / Location	Date	Time	Special Instructions/Comments	Encircle or Write Requested Analysis	Encircle Sample Matrix	TAT	Container	REMARKS
1	130392C-31	B-503.0'	12/11/13	0850		8260 / 624 (Volatiles)				
2	-32	B-900.5'		0900		8015(GRO)				
3	-33	B-903.0'		0901		8015(DRO)				
4	-34	B-5100.5'		0915		8082(PCBs)				
5	-35	B-5103.0'		0917		8081(Organochlorine Pesticides)				
6	-36	B-1300.5'		0936		6010 / 7000 (Title 22 Metals)				
7	-37	B-1303.0'		0939		8270 (Semi-volatiles) SIM				
8	-38	B-1800.5'		0948		8082(PCBs)				
9	-39	B-1803.0'		0950		8015(GRO)				
10	-40	B-2500.5'		0954		8015(DRO)				

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: MITCHELL Signature: [Signature]

Date: 12/11/13 Time: 1:00

Date: 12/11/13 Time: 1:00

Date: _____ Time: _____

Received by: (Signature and Printed Name) _____ Time: _____

Received by: (Signature and Printed Name) _____ Time: _____

Received by: (Signature and Printed Name) _____ Time: _____

CHAIN OF CUSTODY RECORD

Instruction: Complete all shaded areas.

For Laboratory Use Only
ATLCCOC Ver: 20130715

Method of Transport		Sample Conditions Upon Receipt	
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	Condition	Y N
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	1. CHILLED	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> GSO	<input type="checkbox"/> Other: _____	2. HEADSPACE (VOA)	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/>		3. CONTAINER INTACT	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/>		4. SEALED	<input type="checkbox"/> Y <input type="checkbox"/> N
		5. # OF SAMPLES MATCH COC	<input checked="" type="checkbox"/> Y <input type="checkbox"/> N
		6. PRESERVED	<input type="checkbox"/> Y <input type="checkbox"/> N
		7. COOLER TEMP. Reg C:	<input type="checkbox"/> Y <input type="checkbox"/> N

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

Attn: _____ Email: _____

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

Attn: _____ Email: _____

SEND REPORT TO: _____ State: _____ Zip: _____

SEND INVOICE TO: _____ State: _____ Zip: _____

same as SEND REPORT TO

ITEM	Lab No.	Sample ID / Location	Date	Time	Special Instructions/Comments:	Encircle or Write Requested Analysis	Encircle Sample Matrix	Container	QA/QC	REMARKS
1	130393C-41	B-2503.0	12/11/13	0956		TO-15 6010 / 7000 (Title 22 Metals)	SOILS / WIFE/ FILTER WATER - DRINKING / GROUND WATER - STORM / WASTE AQUEOUS / LAYERED - OIL	5-Typ; 6-Tedlar; 7 = Canister Material: 1-Glass; 2-VOA; 3-Liter; 4-Pint	<input type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RWQCB <input type="checkbox"/> Level IV	see B-
2	-42	B-3300.5	10/12							see B-
3	-43	B-3303.0	10/14							see B-
4	-44	B-4000.5	10/25							see B-
5	-45	B-4003.0	10/27							see B-
6	-46	B-4600.5	10/52							see B-
7	-47	B-4603.0	10/54							see B-
8	-48	B-5000.5	11/00							see B-
9	-49	B-5003.0	11/02							see B-
10	-50	B-4700.5	11/08							see B-

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: **MIKELETA BON** Signature: _____
Date: **12/11/13** Time: **10:05**
Date: **12/11/13** Time: **10:02**
Date: _____ Time: _____

Received by: (Signature and Printed Name) _____
Date: **12/11/13** Time: **10:05**
Received by: (Signature and Printed Name) **Fodun**
Date: _____ Time: _____
Received by: (Signature and Printed Name) _____
Date: _____ Time: _____

7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from report date.
9. Storage and Report Fees:
- Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$20/sample/month if extended storage or hold is requested.
- Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
- Hard copy and regenerated reports/EODs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformat ed report; \$35 per copy accessed CDD.
10. Samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

CHAIN OF CUSTODY RECORD

Page 6 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only

ATLCOOC Ver. 20130715

Method of Transport		Sample Conditions Upon Receipt			
Client	Y	N	Condition	Y	N
<input type="checkbox"/> ATL	<input type="checkbox"/>	<input type="checkbox"/>	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> FedEx	<input type="checkbox"/>	<input type="checkbox"/>	2. HEADSPACE (VDA)	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> GSO	<input type="checkbox"/>	<input type="checkbox"/>	3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Other: _____	<input type="checkbox"/>	<input type="checkbox"/>	4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

Attn: _____ Email: _____

SEND REPORT TO: _____ SEND INVOICE TO: _____

same as SEND REPORT TO

Project Name: _____ Quote No: _____

Project No.: _____ PO #: _____

Sampler: _____

Lab No. _____ Sample ID / Location _____ Date _____ Time _____

Special Instructions/Comments: _____

ITEM	Lab No.	Sample ID / Location	Date	Time	Encircle or Write Requested Analysis	Encircle Sample Matrix	TAT	Container #	Material	Preservative	QA/QC	REMARKS
1	B-4793.0'	B-4793.0'	12/11/13	1110	8260 / 624 (Volatiles)	SOIL / SEDIMENT / SLUDGE	51124	5-lar, 6-Tedlar, 7 = Canister	1=Glass, 2=Plastic, 3=Metal	1-HCl, 2-HNO3, 3-H2SO4, 4-Ac	<input type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RWQCB <input type="checkbox"/> Level IV	6-418-y 6-477-b
2	B-4100.5'	B-4100.5'	1113	1113	8015 (DRO)	SOILS / WIPE / FILTER						see B-2
3	B-4103.0'	B-4103.0'	1115	1115	8015 (DRO)	SOILS / WIPE / FILTER						see B-2
4	B-3400.5'	B-3400.5'	1120	1120	8015 (DRO)	SOILS / WIPE / FILTER						see B-2
5	B-3403.0'	B-3403.0'	1122	1122	8015 (DRO)	SOILS / WIPE / FILTER						see B-2
6	B-1900.5'	B-1900.5'	1130	1130	8015 (DRO)	SOILS / WIPE / FILTER						see B-2
7	B-1903.0'	B-1903.0'	1132	1132	8015 (DRO)	SOILS / WIPE / FILTER						see B-2
8	B-1600.5'	B-1600.5'	1136	1136	8015 (DRO)	SOILS / WIPE / FILTER						see B-2
9	B-1603.0'	B-1603.0'	1138	1138	8015 (DRO)	SOILS / WIPE / FILTER						see B-2
10	B-1000.5'	B-1000.5'	1142	1142	8015 (DRO)	SOILS / WIPE / FILTER						see B-2

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: Mike L. Tran Signature: [Signature]

Date: 12/11/13 Time: 7:00

Date: 12/11/13 Time: 1:00

Date: _____ Time: _____

7. Electronic records maintained for five (5) years from report date.
8. Hard copy reports will be disposed of after 45 calendar days from receipt of samples.
9. Storage and Report Fees:
- Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
- Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
10. Rush TCLP/SLC samples: add 2 days to analysis TAT for extraction on procedure.
11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

Relinquished by: [Signature] Date: 12/11/13 Time: 1:00

Relinquished by: [Signature] Date: 12/11/13 Time: 1:00

Relinquished by: [Signature] Date: _____ Time: _____

CHAIN OF CUSTODY RECORD
Page 7 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only

ATLCOCC Ver. 20190715

Method of Transport		Sample Conditions Upon Receipt			
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	Condition	Y	N	Condition
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC
<input type="checkbox"/> GSO	<input type="checkbox"/>	2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED
<input type="checkbox"/> Other:		3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP. deg. C:
		4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>	

Company: _____ **Address:** _____ **City:** _____ **State:** _____ **Zip:** _____

Attn: _____ **Attn:** _____ **Email:** _____

Company: _____ **Address:** _____ **City:** _____ **State:** _____ **Zip:** _____

Project Name: _____ **Quote No.:** _____ **PO #:** _____

ITEM	Lab No.	Sample ID / Location	Date	Time	Special Instructions/Comments:
1	B-1003.0	B-1003.0	12/11/13	11:44	
2	B-600.5	B-600.5	11:48		
3	B-603.0	B-603.0	11:50		
4	B-400.5	B-400.5	11:54		
5	B-403.0	B-403.0	11:56		
6	B-700.5	B-700.5	12:38		
7	B-703.0	B-703.0	12:40		
8	B-1100.5	B-1100.5	12:44		
9	B-1103.0	B-1103.0	12:46		
10	B-1400.5	B-1400.5	12:49		

Encircle or Write Requested Analysis:

<input checked="" type="checkbox"/> SOIL / SEDIMENT / SLUDGE	<input type="checkbox"/> SOLIDS - DRINKING / GROUND	<input type="checkbox"/> WATER - STORM / WASTE	<input type="checkbox"/> AQUEOUS / LAYERED - OIL
<input type="checkbox"/> TAT			

Container: _____ **Remarks:** _____

QA/QC: Routine Caltrans Legal RWQCBC Level IV

Preservative: 1=HCl; 2=HNO3; 3=H2SO4; 4=C; 5=Zn; 6=NaOH; 7=M25203

Material: 1=Glass; 2=Plastic; 3=Metal

Type: 1=Tube; 2=VOA; 3=Liter; 4=Pin; 5=Jar; 6=Tealier; 7=Canister

Signature: _____ **Date:** _____ **Time:** _____

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: _____ **Signature:** _____

Relinquished by: _____ **Date:** 12/11/13 **Time:** 1:00

Relinquished by: _____ **Date:** 12/11/13 **Time:** 1:02

Relinquished by: _____ **Date:** 12/11/13 **Time:** 1:05

CHAIN OF CUSTODY RECORD

Page 3 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only
ATLCOOC Ver. 20130715

Method of Transport		Sample Conditions Upon Receipt			
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	Condition	Y	N	Condition
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH CDC
<input type="checkbox"/> GSO	<input type="checkbox"/> Other: _____	2. HEADSPACE (VOLUME)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED
<input type="checkbox"/>		3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP. (deg. C)
<input type="checkbox"/>		4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>	

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

Attn: _____ Email: _____

SEND REPORT TO: _____

SEND INVOICE TO: _____

Project Name: _____

Project No.: _____ PO #: _____

Sampler: _____

ITEM	Lab No.	Sample ID / Location	Date	Time	Special Instructions/Comments	Encircle Sample Matrix	Encircle or Write Requested Analysis	Container	QA/QC	REMARKS
1	B-14C3.0	B-14C3.0	12/11/13	12:51		TO-15	8260 / 624 (Volatiles)	5-7m (Ag2, 6-NaOH, 7-MN2S2O3)	<input type="checkbox"/> Routine	
2	B-20C0.5	B-20C0.5		12:57		8082(PCBs)	8015(DRO)	Material: 1=Glass, 2=Plastic, 3=Metal	<input type="checkbox"/> Caltrans	see 1
3	B-20C0.5	B-20C0.5		12:59		8081(Organochlorine Pesticides)	8015(DRO)	Type: 1=Tube, 2=Vial, 3=Filter, 4=Pin; 5=Jar, 6=Tray, 7=Canister	<input type="checkbox"/> Legal	see 1
4	B-21C0.5	B-21C0.5		13:06		8270(Semi-volatiles)	8015(DRO)	Preservative: 1=HCl, 2=HNO3, 3=H2SO4, 4=Ac	<input type="checkbox"/> RWQCB	see 1
5	B-21C0.5	B-21C0.5		13:08		8015(DRO)	8015(DRO)		<input type="checkbox"/> Level IV	see 1
6	B-15E0.5	B-15E0.5		13:11		8260 / 624 (Volatiles)	8015(DRO)			see 1
7	B-15E0.5	B-15E0.5		13:13		8015(DRO)	8015(DRO)			see 1
8	B-12E0.5	B-12E0.5		13:18		8015(DRO)	8015(DRO)			see 1
9	B-12E0.5	B-12E0.5		13:20		8015(DRO)	8015(DRO)			see 1
10	B-6E0.5	B-6E0.5		13:24		8015(DRO)	8015(DRO)			see 1

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: MIKE WATSON Signature: [Signature]

Date: 12/11/13 Time: 1:00

Date: 12/11/13 Time: 1:00

Date: 12/11/13 Time: 1:00

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Relinquished by: (Signature and Printed Name) _____ Date: _____ Time: _____

Instruction: Complete all shaded areas.

For Laboratory Use Only
ATLCOG Ver: 20130715

Method of Transport		Sample Conditions Upon Receipt			
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	Condition	Y	N	Condition
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	1. CHILLED	<input type="checkbox"/>	<input type="checkbox"/>	5. # OF SAMPLES MATCH COC
<input type="checkbox"/> GSO	<input type="checkbox"/>	2. HEADSPACE (VOA)	<input type="checkbox"/>	<input type="checkbox"/>	6. PRESERVED
<input type="checkbox"/> Other: _____	<input type="checkbox"/>	3. CONTAINER INTACT	<input type="checkbox"/>	<input type="checkbox"/>	7. COOLER TEMP. deg. C:
		4. SEALED	<input type="checkbox"/>	<input type="checkbox"/>	

Company: _____ Address: _____ Tel: _____
City: _____ State: _____ Zip: _____

SEND REPORT TO: _____ Email: _____
City: _____ State: _____ Zip: _____

SEND INVOICE TO: _____ Email: _____
City: _____ State: _____ Zip: _____

Attn: _____
Company: _____
Address: _____
City: _____ State: _____ Zip: _____

ITEM	Lab No.	Sample ID / Location	Sample Description	Date	Time	Special Instructions/Comments:	Encircle or Write Requested Analysis	Encircle Sample Matrix	Container	QA/QC	REMARKS
1	1303730 -81	B-6030.0		12/11/13	1326		TO-15 6010 / 7000 (Title 22 Metals) 8082 (PCBs) 8081 (Organochlorine Pesticides) 8270 (Semi-volatiles) 8015 (DRO) 8015 (GRO) 8260 / 624 (Volatiles)	X X X X X X X X X X	5-Liter, 6-Tedlar, 7 = Canister Material: 1=Glass, 2=Plastic, 3=Metal	<input type="checkbox"/> Routine <input type="checkbox"/> Caltrans <input type="checkbox"/> Legal <input type="checkbox"/> RWQCB <input type="checkbox"/> Level IV	
2	-82	B-2200.5		1333							see b-1
3	-83	B-2203.0		1335							see b-1
4	-84	B-2800.5		1340							see b-2
5	-85	B-2703.0		1342							see b-2
6	-86	B-3500.5		1346							see b-2
7	-87	B-3503.0		1349							see b-2
8	-88	B-3600.5		1354							see b-2
9	-89	B-3603.0		1356							see b-2
10	-90	B-3700.5		1400							see b-2

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: MIKE WATSON Signature: [Signature]

Date: 12/11/13 Time: 1:00

Received by: (Signature and Printed Name) [Signature] Date: 12/11/13 Time: 1:00

Relinquished by: (Signature and Printed Name) [Signature] Date: 12/11/13 Time: 1:00

Relinquished by: (Signature and Printed Name) [Signature] Date: 12/11/13 Time: 1:00

Relinquished by: (Signature and Printed Name) [Signature] Date: 12/11/13 Time: 1:00

CHAIN OF CUSTODY RECORD

Page 10 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only ATLCOCC Ver. 20180715

Method of Transport		Sample Conditions Upon Receipt	
<input type="checkbox"/> Client	<input checked="" type="checkbox"/> ATL	Condition	Y N
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	1. CHILLED	<input type="checkbox"/> Y <input type="checkbox"/> N
<input type="checkbox"/> GSO	<input type="checkbox"/> Other: _____	2. HEADSPACE (VGA)	<input type="checkbox"/> 5. # OF SAMPLES MATCH COC
<input type="checkbox"/> Other: _____		3. CONTAINER INTACT	<input type="checkbox"/> 6. PRESERVED
		4. SEALED	<input type="checkbox"/> 7. COOLER TEMP. Log C:

Company: _____ Address: _____ City: _____ State: _____ Zip: _____
 Attn: _____ Email: _____
 SEND REPORT TO: _____
 SEND INVOICE TO: _____
 Email: _____
 State: _____ Zip: _____
 Tel: _____ Fax: _____
 Project Name: _____ Quote No: _____
 Project No.: _____ PO #: _____
 Sampler: _____

ITEM	Lab No.	Sample ID / Location	Sample Description	Date	Time	Encircle or Write Requested Analysis		Encircle Sample Matrix					Container	REMARKS			
						8260 / 624 (Volatiles)	8015 (GRO)	8015 (PRO)	8270 (Semi-volatiles)	8081 (Organochlorine Pesticides)	8082 (PCBs)	6010 / 7000 (Title 22 Metals)			TO-15	SOILS / WIFE / FILTER	WATER - DRINKING / GROUND
1	1303926-91	B-37C3.0'		12/11/13	1402												
2	-92	B-38C0.5'			1404	X	X										see B-37
3	-93	B-38C3.0'			1406												see B-22
4	-94	B-31C0.5'			1412	X	X										see B-22
5	-95	B-31C3.0'			1414												
6	-96	B-30C0.5'			1416												
7	-97	B-30C3.0'			1418												
8	-98	B-29C0.5'			1424												
9	-99	B-29C3.0'			1426												
10	-AA	B-23C0.5'			1428												

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter: Mike W. [Signature] Signature: _____
 Date: 12/11/13 Date: _____
 Time: _____ Time: _____

Received by: [Signature] Signature and Printed Name: _____
 Date: 12/11/13 Date: _____
 Time: 1405 Time: _____

Received by: [Signature] Signature and Printed Name: _____
 Date: 12/11/13 Date: _____
 Time: 1852 Time: _____

Received by: [Signature] Signature and Printed Name: _____
 Date: _____ Date: _____
 Time: _____ Time: _____

7. Electronic records maintained for five (5) years from report date.
 8. Hard copy reports will be disposed of after 45 calendar days from report date.
 9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/week if extended storage is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
 - Hard copy and regenerated reports/EDDs: \$17.50 per hard copy report requested; \$50.00 per regenerated/report/ed report; \$25 per reprocessed EDD.
 10. 5th (CO2) and 6th (SO2) samples will incur a disposal fee of \$7 per sample.
 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

CHAIN OF CUSTODY RECORD

Page 11 of 11

Instruction: Complete all shaded areas.

For Laboratory Use Only ATLCC Ver: 20130715

Method of Transport		Sample Conditions Upon Receipt	
<input type="checkbox"/> Client	<input type="checkbox"/> ATL	Condition	Y N
<input type="checkbox"/> FedEx	<input type="checkbox"/> OnTrac	<input type="checkbox"/> 1. CHILLED	<input type="checkbox"/> 5. # OF SAMPLES MATCH COC
<input type="checkbox"/> GSO	<input type="checkbox"/> GSO	<input type="checkbox"/> 2. HEADSPACE (VOLUME)	<input type="checkbox"/> 6. PRESERVED
<input type="checkbox"/> Other:		<input type="checkbox"/> 3. CONTAINER INTACT	<input type="checkbox"/> 7. COOLER TEMP. DEG C:
		<input type="checkbox"/> 4. SEALED	<input type="checkbox"/>

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

Attn: _____ Email: _____

Company: _____ Address: _____ City: _____ State: _____ Zip: _____

Attn: _____ Email: _____

SEND REPORT TO: _____ State: _____ Zip: _____

SEND INVOICE TO: _____ State: _____ Zip: _____

□ same as SEND REPORT TO

Project Name:	Quote No.:	Special Instructions/Comments:	Encircle or Write Requested Analysis	Container	QA/QC
Project No.:	PO #:		8260 / 624 (Volatiles)	Type: 1=Tube, 2=Vial, 3=Filter, 4=Pin, 5=Jar, 6=Tray, 7=Canister	Preservative: 1=HCl, 2=HNO3, 3=H2SO4, 4=C, 5=Zn (Ac), 6=NaOH, 7=MA25203
Sampler:	Sample ID / Location	Sample Description	8015 (GRO)	Material: 1=Glass, 2=Plastic, 3=Metal	REMARKS
ITEM	Lab No.		8015 (DRO)		
1	B-2303.0	12/11/13 1430	8082 (PCBs)		
2	B-2400.5	1434	8081 (Organochlorine Pesticides)		B-2400.5
3	B-2403.0	1436	8270 (Semi-volatiles) SIM		B-2403.0
4	B-1700.5	1439	TO-15		B-1700.5
5	B-1703.0	1441	6010 / 7000 (Title 22 Metals)		B-1703.0
6	B-2700.5	1444	8082 (PCBs)		B-2700.5
7	B-2703.0	1446	8081 (Organochlorine Pesticides)		B-2703.0
8	B-2600.5	1450	8270 (Semi-volatiles) SIM		B-2600.5
9	B-2603.0	1452	8015 (GRO)		B-2603.0
10	EBR113	1500	8015 (DRO)		B-2603.0

As the authorized agent of the company above, I hereby purchase laboratory services from ATL as shown above and hereby guarantee payment as quoted.

Submitter Print Name: MIKE WATSON Signature: [Signature]

Date: 12/11/13 Time: 1:05

Date: 12/11/13 Time: 1:05

Date: 12/11/13 Time: 1:05

7. Electronic records maintained for five (5) years from report date.
 8. Hard copy reports will be disposed of after 45 calendar days from report date.
 9. Storage and Report Fees:
 - Liquid & solid samples: Complimentary storage for forty-five (45) calendar days from receipt of samples; \$2/sample/month if extended storage or hold is requested.
 - Air samples: Complimentary storage for ten (10) calendar days from receipt of samples; \$20/sample/week if extended storage is requested.
 - Hard copy and regenerated reports/EODs: \$17.50 per hard copy report requested; \$50.00 per regenerated/reformat ed report; \$35 per report processed EOD.
 10. Rush TAT/911CC samples: add 2 days to analysis TAT for extraction on procedure.
 11. Unanalyzed samples will incur a disposal fee of \$7 per sample.

Reinquired by: _____ Signature and Printed Name: _____ Date: _____ Time: _____

Reinquired by: _____ Signature and Printed Name: _____ Date: _____ Time: _____

Reinquired by: _____ Signature and Printed Name: _____ Date: _____ Time: _____

Fernando Diwa

From: Mike Watson [mwatson@planningcenter.com]
Sent: Thursday, December 12, 2013 9:36 PM
To: Fernando Diwa
Subject: Re: High School 5, Option A, Irvine CA, ISD-28.0

The sample collected at 1324 is B-8@0.5 and the sample collected at 1326 is B-8@3.0.

Thanks,
-Mike

On Dec 12, 2013 12:19 PM, Fernando Diwa <fernando@atlglobal.com> wrote:

>
> Hi Mike,
>
>
>
> Samples B-6@0.5' and B-6@3.0' were listed twice on the COCs. Hi Mike,

Samples B-6@0.5' and B-6@3.0' were listed twice on the COCs. We checked the samples and we did received 2 acetate tubes for each ID, times of collection matched. Both samples for B-6@0.5' were marked on the coc to be part of a 4-point composite B-5, B-6, B-9, B-10 (see attached cocs).

On the other hand, a 4-point composite (B-4, B-7, B-8, B-11) was marked on Page 7 of 11, but unfortunately, no sample was received for B-8 and/or not listed on the coc.

Please advise.

Regards,

Ronnie.



9765 Eton Avenue
Chatsworth
California 91311
Tel: (818) 998-5547
Fax: (818) 998-7258

December 23, 2013

Rose Williams
InterPhase Environmental, Inc.
6200 Peachtree St.
Los Angeles, CA 90040

Re : Soil Gas Investigation - Irvine
MB53967 / 3L19003

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received on 12/19/2013 and analyzed in accordance with the attached chain-of-custody.

Unless otherwise noted, all analytical testing was accomplished in accordance with the guidelines established in our Quality Assurance Program Manual, applicable standard operating procedures, and other related documentation. The results in this analytical report are limited to the samples tested and any reproduction thereof must be made in its entirety.

If you have any questions regarding this report or require additional information please call me at American Analytix.

Sincerely,

A handwritten signature in black ink that reads 'Eydie Schwartz'.

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
<u>Fixed Gases</u>					
SG-2-5' PV1	3L19003-02	Vapor	0	12/11/13 09:25	12/19/13 09:47
SG-2-5' PV3	3L19003-03	Vapor	0	12/11/13 09:50	12/19/13 09:47
SG-2-5' PV10	3L19003-04	Vapor	0	12/11/13 10:39	12/19/13 09:47
SG-2-15' PV3	3L19003-05	Vapor	0	12/11/13 10:50	12/19/13 09:47
SG-5-5' PV3	3L19003-06	Vapor	0	12/11/13 11:35	12/19/13 09:47
SG-5-15' PV3	3L19003-08	Vapor	0	12/11/13 12:50	12/19/13 09:47
SG-6-5' PV3	3L19003-09	Vapor	0	12/11/13 13:25	12/19/13 09:47
SG-6-15' PV3	3L19003-10	Vapor	0	12/11/13 13:42	12/19/13 09:47
SG-7-5' PV3	3L19003-11	Vapor	0	12/11/13 14:25	12/19/13 09:47
SG-7-15' PV3	3L19003-12	Vapor	0	12/11/13 14:45	12/19/13 09:47
SG-8-5' PV3	3L19003-13	Vapor	0	12/11/13 15:17	12/19/13 09:47
SG-8-15' PV3	3L19003-14	Vapor	0	12/11/13 15:40	12/19/13 09:47
SG-8-15' PV3 DUP	3L19003-15	Vapor	0	12/11/13 15:40	12/19/13 09:47
SG-9-5' PV3	3L19003-17	Vapor	0	12/12/13 10:00	12/19/13 09:47
SG-9-15' PV3	3L19003-18	Vapor	0	12/12/13 10:30	12/19/13 09:47
SG-10-5' PV3	3L19003-19	Vapor	0	12/12/13 10:55	12/19/13 09:47
SG-10-15' PV3	3L19003-20	Vapor	0	12/12/13 11:25	12/19/13 09:47
SG-4-5' PV3	3L19003-21	Vapor	0	12/12/13 11:50	12/19/13 09:47
SG-4-15' PV3	3L19003-22	Vapor	0	12/12/13 12:30	12/19/13 09:47

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
SG-3-5' PV3	3L19003-23	Vapor	0	12/12/13 13:00	12/19/13 09:47
SG-3-15' PV3	3L19003-24	Vapor	0	12/12/13 13:20	12/19/13 09:47
SG-1-5' PV3	3L19003-25	Vapor	0	12/12/13 13:49	12/19/13 09:47
SG-1-15' PV3	3L19003-26	Vapor	0	12/12/13 14:08	12/19/13 09:47
SG-11-5' PV3	3L19003-27	Vapor	0	12/12/13 14:45	12/19/13 09:47
SG-11-5' PV3 DUP	3L19003-28	Vapor	0	12/12/13 14:45	12/19/13 09:47
SG-11-15' PV3	3L19003-29	Vapor	0	12/12/13 15:30	12/19/13 09:47
SG-11-15' PV3 DUP	3L19003-30	Vapor	0	12/12/13 15:30	12/19/13 09:47
SG-11-40' PV3	3L19003-31	Vapor	0	12/12/13 16:12	12/19/13 09:47
SG-11-40' PV3 DUP	3L19003-32	Vapor	0	12/12/13 16:12	12/19/13 09:47
SG-12-5' PV3	3L19003-33	Vapor	0	12/12/13 16:45	12/19/13 09:47
SG-12-15' PV3	3L19003-34	Vapor	0	12/12/13 17:03	12/19/13 09:47
SG-12-40' PV3	3L19003-35	Vapor	0	12/12/13 17:21	12/19/13 09:47
SG-14-5' PV3	3L19003-37	Vapor	0	12/13/13 08:20	12/19/13 09:47
SG-14-15' PV3	3L19003-38	Vapor	0	12/13/13 08:49	12/19/13 09:47
SG-14-15' PV3 DUP	3L19003-39	Vapor	0	12/13/13 08:49	12/19/13 09:47
SG-14-40' PV3	3L19003-40	Vapor	0	12/13/13 09:40	12/19/13 09:47
SG-16-5' PV3	3L19003-41	Vapor	0	12/13/13 10:22	12/19/13 09:47
SG-16-15' PV3	3L19003-42	Vapor	0	12/13/13 10:43	12/19/13 09:47
SG-16-40' PV3	3L19003-43	Vapor	0	12/13/13 10:57	12/19/13 09:47

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
SG-15-5' PV3	3L19003-44	Vapor	0	12/13/13 11:15	12/19/13 09:47
SG-15-15' PV3	3L19003-45	Vapor	0	12/13/13 11:38	12/19/13 09:47
SG-15-40' PV3	3L19003-46	Vapor	0	12/13/13 11:56	12/19/13 09:47
SG-13-5' PV3	3L19003-47	Vapor	0	12/13/13 12:16	12/19/13 09:47
SG-13-15' PV3	3L19003-48	Vapor	0	12/13/13 12:32	12/19/13 09:47
SG-13-40' PV3	3L19003-49	Vapor	0	12/13/13 12:49	12/19/13 09:47

VOCs by GC/MS Vapor - FIELD

Ambient Air	3L19003-01	Vapor	0	12/11/13 08:45	12/19/13 09:47
SG-2-5' PV1	3L19003-02	Vapor	0	12/11/13 09:25	12/19/13 09:47
SG-2-5' PV3	3L19003-03	Vapor	0	12/11/13 09:50	12/19/13 09:47
SG-2-5' PV10	3L19003-04	Vapor	0	12/11/13 10:39	12/19/13 09:47
SG-2-15' PV3	3L19003-05	Vapor	0	12/11/13 10:50	12/19/13 09:47
SG-5-5' PV3	3L19003-06	Vapor	0	12/11/13 11:35	12/19/13 09:47
SG-2-15' PV10	3L19003-07	Vapor	0	12/11/13 12:25	12/19/13 09:47
SG-5-15' PV3	3L19003-08	Vapor	0	12/11/13 12:50	12/19/13 09:47
SG-6-5' PV3	3L19003-09	Vapor	0	12/11/13 13:25	12/19/13 09:47
SG-6-15' PV3	3L19003-10	Vapor	0	12/11/13 13:42	12/19/13 09:47
SG-7-5' PV3	3L19003-11	Vapor	0	12/11/13 14:25	12/19/13 09:47
SG-7-15' PV3	3L19003-12	Vapor	0	12/11/13 14:45	12/19/13 09:47
SG-8-5' PV3	3L19003-13	Vapor	0	12/11/13 15:17	12/19/13 09:47

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
SG-8-15' PV3	3L19003-14	Vapor	0	12/11/13 15:40	12/19/13 09:47
SG-8-15' PV3 DUP	3L19003-15	Vapor	0	12/11/13 15:40	12/19/13 09:47
Ambient Air	3L19003-16	Vapor	0	12/12/13 00:00	12/19/13 09:47
SG-9-5' PV3	3L19003-17	Vapor	0	12/12/13 10:00	12/19/13 09:47
SG-9-15' PV3	3L19003-18	Vapor	0	12/12/13 10:30	12/19/13 09:47
SG-10-5' PV3	3L19003-19	Vapor	0	12/12/13 10:55	12/19/13 09:47
SG-4-5' PV3	3L19003-21	Vapor	0	12/12/13 11:50	12/19/13 09:47
SG-4-15' PV3	3L19003-22	Vapor	0	12/12/13 12:30	12/19/13 09:47
SG-3-5' PV3	3L19003-23	Vapor	0	12/12/13 13:00	12/19/13 09:47
SG-3-15' PV3	3L19003-24	Vapor	0	12/12/13 13:20	12/19/13 09:47
SG-1-5' PV3	3L19003-25	Vapor	0	12/12/13 13:49	12/19/13 09:47
SG-1-15' PV3	3L19003-26	Vapor	0	12/12/13 14:08	12/19/13 09:47
SG-11-5' PV3	3L19003-27	Vapor	0	12/12/13 14:45	12/19/13 09:47
SG-11-5' PV3 DUP	3L19003-28	Vapor	0	12/12/13 14:45	12/19/13 09:47
SG-11-15' PV3	3L19003-29	Vapor	0	12/12/13 15:30	12/19/13 09:47
SG-11-15' PV3 DUP	3L19003-30	Vapor	0	12/12/13 15:30	12/19/13 09:47
Ambient Air	3L19003-36	Vapor	0	12/13/13 07:40	12/19/13 09:47
SG-14-5' PV3	3L19003-37	Vapor	0	12/13/13 08:20	12/19/13 09:47
SG-14-15' PV3	3L19003-38	Vapor	0	12/13/13 08:49	12/19/13 09:47
SG-14-15' PV3 DUP	3L19003-39	Vapor	0	12/13/13 08:49	12/19/13 09:47

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Sample ID	Laboratory ID	Matrix	TAT	Date Sampled	Date Received
SG-16-5' PV3	3L19003-41	Vapor	0	12/13/13 10:22	12/19/13 09:47
SG-16-15' PV3	3L19003-42	Vapor	0	12/13/13 10:43	12/19/13 09:47
SG-15-5' PV3	3L19003-44	Vapor	0	12/13/13 11:15	12/19/13 09:47
SG-15-15' PV3	3L19003-45	Vapor	0	12/13/13 11:38	12/19/13 09:47
SG-10-15' PV3	3L19003-50	Vapor	0	12/13/13 10:00	12/19/13 09:47

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

ANALYTICAL DATA SUMMARY

Analyte	Sample Name	Result	MRL	Units	Dilution	Prepared	Analyzed	Method
<u>Fixed Gases by TCD</u>								
<u>VOCs in Vapor by GC/MS - Field</u>								
Benzene	SG-2-15' PV3	0.070	0.030	ug/L	1	12/11/13	12/11/13	EPA 8260M
Ethylbenzene	SG-2-15' PV3	0.11	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
Toluene	SG-2-15' PV3	0.36	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
1,3,5-Trimethylbenzene	SG-2-15' PV3	0.31	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
1,2,4-Trimethylbenzene	SG-2-15' PV3	0.23	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
o-Xylene	SG-2-15' PV3	0.14	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
m,p-Xylenes	SG-2-15' PV3	0.55	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
Benzene	SG-2-15' PV10	0.058	0.030	ug/L	1	12/11/13	12/11/13	EPA 8260M
Ethylbenzene	SG-2-15' PV10	0.14	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
Toluene	SG-2-15' PV10	0.44	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
1,3,5-Trimethylbenzene	SG-2-15' PV10	0.46	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
1,2,4-Trimethylbenzene	SG-2-15' PV10	0.36	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
o-Xylene	SG-2-15' PV10	0.18	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
m,p-Xylenes	SG-2-15' PV10	0.74	0.10	ug/L	1	12/11/13	12/11/13	EPA 8260M
m,p-Xylenes	SG-4-5' PV3	0.17	0.10	ug/L	1	12/12/13	12/12/13	EPA 8260M
Chloroform	SG-16-5' PV3	0.15	0.10	ug/L	1	12/13/13	12/13/13	EPA 8260M
Bromodichloromethane	SG-16-15' PV3	0.14	0.10	ug/L	1	12/13/13	12/13/13	EPA 8260M
Chloroform	SG-16-15' PV3	0.52	0.10	ug/L	1	12/13/13	12/13/13	EPA 8260M
Chloroform	SG-15-5' PV3	0.32	0.10	ug/L	1	12/13/13	12/13/13	EPA 8260M
Bromodichloromethane	SG-15-15' PV3	0.20	0.10	ug/L	1	12/13/13	12/13/13	EPA 8260M
Chloroform	SG-15-15' PV3	0.84	0.10	ug/L	1	12/13/13	12/13/13	EPA 8260M

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Units: % by Volume

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-02	3L19003-03	3L19003-04	3L19003-05	
Client ID No:	SG-2-5' PV1	SG-2-5' PV3	SG-2-5' PV10	SG-2-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Units: % by Volume

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-06	3L19003-08	3L19003-09	3L19003-10	
Client ID No:	SG-5-5' PV3	SG-5-15' PV3	SG-6-5' PV3	SG-6-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Units: % by Volume

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-11	3L19003-12	3L19003-13	3L19003-14	
Client ID No:	SG-7-5' PV3	SG-7-15' PV3	SG-8-5' PV3	SG-8-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/11/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/11/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/11/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-15	3L19003-17	3L19003-18	3L19003-19	
Client ID No:	SG-8-15' PV3 DUP	SG-9-5' PV3	SG-9-15' PV3	SG-10-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/12/2013	12/12/2013	12/12/2013	12/12/2013	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-20	3L19003-21	3L19003-22	3L19003-23	
Client ID No:	SG-10-15' PV3	SG-4-5' PV3	SG-4-15' PV3	SG-3-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-24	3L19003-25	3L19003-26	3L19003-27	
Client ID No:	SG-3-15' PV3	SG-1-5' PV3	SG-1-15' PV3	SG-11-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-28	3L19003-29	3L19003-30	3L19003-31	
Client ID No:	SG-11-5' PV3 DUP	SG-11-15' PV3	SG-11-15' PV3 DUP	SG-11-40' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-32	3L19003-33	3L19003-34	3L19003-35	
Client ID No:	SG-11-40' PV3 DUP	SG-12-5' PV3	SG-12-15' PV3	SG-12-40' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-37	3L19003-38	3L19003-39	3L19003-40	
Client ID No:	SG-14-5' PV3	SG-14-15' PV3	SG-14-15' PV3 DUP	SG-14-40' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-41	3L19003-42	3L19003-43	3L19003-44	
Client ID No:	SG-16-5' PV3	SG-16-15' PV3	SG-16-40' PV3	SG-15-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-45	3L19003-46	3L19003-47	3L19003-48	
Client ID No:	SG-15-15' PV3	SG-15-40' PV3	SG-13-5' PV3	SG-13-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	<0.10	<0.10	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: Fixed Gases by TCD

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: % by Volume

Date Sampled:	12/13/13	
Date Prepared:	12/13/13	
Date Analyzed:	12/13/13	
AA ID No:	3L19003-49	
Client ID No:	SG-13-40' PV3	
Matrix:	Vapor	
Dilution Factor:	1	MRL

Fixed Gases (VOCs by GC/TCD)

Methane	<0.10	0.10
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-01	3L19003-02	3L19003-03	3L19003-04	
Client ID No:	Ambient Air	SG-2-5' PV1	SG-2-5' PV3	SG-2-5' PV10	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	<0.10	<0.10	<0.10	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-01	3L19003-02	3L19003-03	3L19003-04	
Client ID No:	Ambient Air	SG-2-5' PV1	SG-2-5' PV3	SG-2-5' PV10	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030
n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-01	3L19003-02	3L19003-03	3L19003-04	
Client ID No:	Ambient Air	SG-2-5' PV1	SG-2-5' PV3	SG-2-5' PV10	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	<0.10	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					<u>%REC Limits</u>
4-Bromofluorobenzene	88%	91%	92%	90%	70-130
Dibromofluoromethane	108%	113%	116%	115%	70-130
Toluene-d8	103%	99%	99%	98%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-05	3L19003-06	3L19003-07	3L19003-08	
Client ID No:	SG-2-15' PV3	SG-5-5' PV3	SG-2-15' PV10	SG-5-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	0.070	<0.030	0.058	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	<0.10	<0.10	<0.10	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

	12/11/13	12/11/13	12/11/13	12/11/13	
Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-05	3L19003-06	3L19003-07	3L19003-08	
Client ID No:	SG-2-15' PV3	SG-5-5' PV3	SG-2-15' PV10	SG-5-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	0.11	<0.10	0.14	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030
n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-05	3L19003-06	3L19003-07	3L19003-08	
Client ID No:	SG-2-15' PV3	SG-5-5' PV3	SG-2-15' PV10	SG-5-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	0.36	<0.10	0.44	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	0.31	<0.10	0.46	<0.10	0.10
1,2,4-Trimethylbenzene	0.23	<0.10	0.36	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	0.14	<0.10	0.18	<0.10	0.10
m,p-Xylenes	0.55	<0.10	0.74	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	88%	91%	91%	93%	70-130
Dibromofluoromethane	118%	116%	113%	114%	70-130
Toluene-d8	94%	99%	97%	96%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-09	3L19003-10	3L19003-11	3L19003-12	
Client ID No:	SG-6-5' PV3	SG-6-15' PV3	SG-7-5' PV3	SG-7-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	<0.10	<0.10	<0.10	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-09	3L19003-10	3L19003-11	3L19003-12	
Client ID No:	SG-6-5' PV3	SG-6-15' PV3	SG-7-5' PV3	SG-7-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030
n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/11/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/11/13	
AA ID No:	3L19003-09	3L19003-10	3L19003-11	3L19003-12	
Client ID No:	SG-6-5' PV3	SG-6-15' PV3	SG-7-5' PV3	SG-7-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	<0.10	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					<u>%REC Limits</u>
4-Bromofluorobenzene	92%	92%	92%	95%	70-130
Dibromofluoromethane	114%	118%	116%	116%	70-130
Toluene-d8	98%	94%	95%	96%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/12/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/12/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/12/13	
AA ID No:	3L19003-13	3L19003-14	3L19003-15	3L19003-16	
Client ID No:	SG-8-5' PV3	SG-8-15' PV3	SG-8-15' PV3 DUP	Ambient Air	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	<0.10	<0.10	<0.10	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/12/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/12/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/12/13	
AA ID No:	3L19003-13	3L19003-14	3L19003-15	3L19003-16	
Client ID No:	SG-8-5' PV3	SG-8-15' PV3	SG-8-15' PV3 DUP	Ambient Air	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/12/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/12/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/12/13	
AA ID No:	3L19003-13	3L19003-14	3L19003-15	3L19003-16	
Client ID No:	SG-8-5' PV3	SG-8-15' PV3	SG-8-15' PV3 DUP	Ambient Air	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030
n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	<0.10	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	93%	99%	95%	90%	70-130
Dibromofluoromethane	119%	116%	116%	116%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/11/13	12/11/13	12/11/13	12/12/13	
Date Prepared:	12/11/13	12/11/13	12/11/13	12/12/13	
Date Analyzed:	12/11/13	12/11/13	12/11/13	12/12/13	
AA ID No:	3L19003-13	3L19003-14	3L19003-15	3L19003-16	
Client ID No:	SG-8-5' PV3	SG-8-15' PV3	SG-8-15' PV3 DUP	Ambient Air	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Toluene-d8	95%	99%	99%	99%	70-130
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Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/12/2013	12/12/2013	12/12/2013	12/12/2013	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-17	3L19003-18	3L19003-19	3L19003-21	
Client ID No:	SG-9-5' PV3	SG-9-15' PV3	SG-10-5' PV3	SG-4-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	<0.10	<0.10	<0.10	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

	12/12/2013	12/12/2013	12/12/2013	12/12/2013	
Date Sampled:	12/12/2013	12/12/2013	12/12/2013	12/12/2013	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-17	3L19003-18	3L19003-19	3L19003-21	
Client ID No:	SG-9-5' PV3	SG-9-5' PV3	SG-10-5' PV3	SG-4-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030
n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/12/2013	12/12/2013	12/12/2013	12/12/2013	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-17	3L19003-18	3L19003-19	3L19003-21	
Client ID No:	SG-9-5' PV3	SG-9-15' PV3	SG-10-5' PV3	SG-4-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	<0.10	0.17	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					<u>%REC Limits</u>
4-Bromofluorobenzene	90%	88%	90%	89%	70-130
Dibromofluoromethane	118%	117%	118%	117%	70-130
Toluene-d8	97%	97%	99%	98%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

	12/12/13	12/12/13	12/12/13	12/12/13	
Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-22	3L19003-23	3L19003-24	3L19003-25	
Client ID No:	SG-4-15' PV3	SG-3-5' PV3	SG-3-15' PV3	SG-1-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	<0.10	<0.10	<0.10	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

	12/12/13	12/12/13	12/12/13	12/12/13	
Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-22	3L19003-23	3L19003-24	3L19003-25	
Client ID No:	SG-4-15' PV3	SG-3-5' PV3	SG-3-15' PV3	SG-1-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030
n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

	12/12/13	12/12/13	12/12/13	12/12/13	
Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-22	3L19003-23	3L19003-24	3L19003-25	
Client ID No:	SG-4-15' PV3	SG-3-5' PV3	SG-3-15' PV3	SG-1-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	<0.10	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

<u>Surrogates</u>					<u>%REC Limits</u>
4-Bromofluorobenzene	93%	92%	93%	94%	70-130
Dibromofluoromethane	117%	119%	118%	117%	70-130
Toluene-d8	97%	97%	97%	97%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

	12/12/13	12/12/13	12/12/13	12/12/13	
Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-26	3L19003-27	3L19003-28	3L19003-29	
Client ID No:	SG-1-15' PV3	SG-11-5' PV3	SG-11-5' PV3	SG-11-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	<0.10	<0.10	<0.10	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-26	3L19003-27	3L19003-28	3L19003-29	
Client ID No:	SG-1-15' PV3	SG-11-5' PV3	SG-11-5' PV3	SG-11-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Prepared:	12/12/13	12/12/13	12/12/13	12/12/13	
Date Analyzed:	12/12/13	12/12/13	12/12/13	12/12/13	
AA ID No:	3L19003-26	3L19003-27	3L19003-28	3L19003-29	
Client ID No:	SG-1-15' PV3	SG-11-5' PV3	SG-11-5' PV3	SG-11-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	<0.10	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					<u>%REC Limits</u>
4-Bromofluorobenzene	92%	93%	91%	93%	70-130
Dibromofluoromethane	120%	117%	117%	117%	70-130
Toluene-d8	97%	97%	95%	98%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/12/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/12/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/12/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-30	3L19003-36	3L19003-37	3L19003-38	
Client ID No:	SG-11-15' PV3 DUP	Ambient Air	SG-14-5' PV3	SG-14-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	<0.10	<0.10	<0.10	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/12/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/12/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/12/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-30	3L19003-36	3L19003-37	3L19003-38	
Client ID No:	SG-11-15' PV3 DUP	Ambient Air	SG-14-5' PV3	SG-14-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/12/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/12/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/12/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-30	3L19003-36	3L19003-37	3L19003-38	
Client ID No:	SG-11-15' PV3 DUP	Ambient Air	SG-14-5' PV3	SG-14-15' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	<0.10	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates					%REC Limits
4-Bromofluorobenzene	91%	91%	91%	88%	70-130
Dibromofluoromethane	116%	113%	106%	112%	70-130
Toluene-d8	98%	99%	103%	100%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-39	3L19003-41	3L19003-42	3L19003-44	
Client ID No:	SG-14-15' PV3 DUP	SG-16-5' PV3	SG-16-15' PV3	SG-15-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
Bromodichloromethane	<0.10	<0.10	0.14	<0.10	0.10
Bromoform	<0.10	<0.10	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	<20	<20	20
n-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Chloroform	<0.10	0.15	0.52	0.32	0.10
Chloromethane	<0.10	<0.10	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-39	3L19003-41	3L19003-42	3L19003-44	
Client ID No:	SG-14-15' PV3 DUP	SG-16-5' PV3	SG-16-15' PV3	SG-15-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,2-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,4-Dichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	<0.030	<0.030	0.030

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	12/13/13	12/13/13	
AA ID No:	3L19003-39	3L19003-41	3L19003-42	3L19003-44	
Client ID No:	SG-14-15' PV3 DUP	SG-16-5' PV3	SG-16-15' PV3	SG-15-5' PV3	
Matrix:	Vapor	Vapor	Vapor	Vapor	
Dilution Factor:	1	1	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

n-Propylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Styrene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	<0.10	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	<1.0	<1.0	1.0

Surrogates

					<u>%REC Limits</u>
4-Bromofluorobenzene	90%	89%	91%	90%	70-130
Dibromofluoromethane	115%	117%	115%	115%	70-130
Toluene-d8	96%	97%	94%	96%	70-130

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	
AA ID No:	3L19003-45	3L19003-50	
Client ID No:	SG-15-15' PV3	SG-10-15' PV3	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M)

Acetone	<1.0	<1.0	1.0
tert-Amyl Methyl Ether (TAME)	<5.0	<5.0	5.0
Benzene	<0.030	<0.030	0.030
Bromobenzene	<0.10	<0.10	0.10
Bromochloromethane	<0.10	<0.10	0.10
Bromodichloromethane	0.20	<0.10	0.10
Bromoform	<0.10	<0.10	0.10
Bromomethane	<0.10	<0.10	0.10
2-Butanone (MEK)	<1.0	<1.0	1.0
tert-Butyl alcohol (TBA)	<20	<20	20
n-Butylbenzene	<0.10	<0.10	0.10
sec-Butylbenzene	<0.10	<0.10	0.10
tert-Butylbenzene	<0.10	<0.10	0.10
Carbon Disulfide	<0.10	<0.10	0.10
Carbon Tetrachloride	<0.020	<0.020	0.020
Chlorobenzene	<0.10	<0.10	0.10
Chloroethane	<0.10	<0.10	0.10
Chloroform	0.84	<0.10	0.10
Chloromethane	<0.10	<0.10	0.10
2-Chlorotoluene	<0.10	<0.10	0.10
4-Chlorotoluene	<0.10	<0.10	0.10
1,2-Dibromo-3-chloropropane	<0.10	<0.10	0.10
Dibromochloromethane	<0.10	<0.10	0.10
1,2-Dibromoethane (EDB)	<0.10	<0.10	0.10
Dibromomethane	<0.10	<0.10	0.10
1,3-Dichlorobenzene	<0.10	<0.10	0.10
1,2-Dichlorobenzene	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	
AA ID No:	3L19003-45	3L19003-50	
Client ID No:	SG-15-15' PV3	SG-10-15' PV3	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

1,4-Dichlorobenzene	<0.10	<0.10	0.10
Dichlorodifluoromethane (R12)	<0.10	<0.10	0.10
1,1-Dichloroethane	<0.10	<0.10	0.10
1,2-Dichloroethane (EDC)	<0.040	<0.040	0.040
1,1-Dichloroethylene	<0.10	<0.10	0.10
cis-1,2-Dichloroethylene	<0.10	<0.10	0.10
trans-1,2-Dichloroethylene	<0.10	<0.10	0.10
2,2-Dichloropropane	<0.10	<0.10	0.10
1,2-Dichloropropane	<0.10	<0.10	0.10
1,3-Dichloropropane	<0.10	<0.10	0.10
trans-1,3-Dichloropropylene	<0.10	<0.10	0.10
cis-1,3-Dichloropropylene	<0.10	<0.10	0.10
1,1-Dichloropropylene	<0.10	<0.10	0.10
Diisopropyl ether (DIPE)	<5.0	<5.0	5.0
Ethylbenzene	<0.10	<0.10	0.10
Ethyl-tert-Butyl Ether (ETBE)	<5.0	<5.0	5.0
Gasoline Range Organics (GRO)	<10	<10	10
Hexachlorobutadiene	<0.10	<0.10	0.10
2-Hexanone (MBK)	<1.0	<1.0	1.0
Isopropylbenzene	<0.10	<0.10	0.10
4-Isopropyltoluene	<0.10	<0.10	0.10
Methyl-tert-Butyl Ether (MTBE)	<0.50	<0.50	0.50
Methylene Chloride	<0.50	<0.50	0.50
4-Methyl-2-pentanone (MIBK)	<1.0	<1.0	1.0
Naphthalene	<0.030	<0.030	0.030
n-Propylbenzene	<0.10	<0.10	0.10

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine
Method: VOCs in Vapor by GC/MS - Field

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13
Units: ug/L

Date Sampled:	12/13/13	12/13/13	
Date Prepared:	12/13/13	12/13/13	
Date Analyzed:	12/13/13	12/13/13	
AA ID No:	3L19003-45	3L19003-50	
Client ID No:	SG-15-15' PV3	SG-10-15' PV3	
Matrix:	Vapor	Vapor	
Dilution Factor:	1	1	MRL

VOCs by GC/MS Vapor - FIELD (EPA 8260M) (continued)

Styrene	<0.10	<0.10	0.10
1,1,2,2-Tetrachloroethane	<0.10	<0.10	0.10
1,1,1,2-Tetrachloroethane	<0.10	<0.10	0.10
Tetrachloroethylene (PCE)	<0.10	<0.10	0.10
Toluene	<0.10	<0.10	0.10
1,2,4-Trichlorobenzene	<0.10	<0.10	0.10
1,2,3-Trichlorobenzene	<0.10	<0.10	0.10
1,1,2-Trichloroethane	<0.10	<0.10	0.10
1,1,1-Trichloroethane	<0.10	<0.10	0.10
Trichloroethylene (TCE)	<0.10	<0.10	0.10
Trichlorofluoromethane (R11)	<0.10	<0.10	0.10
1,2,3-Trichloropropane	<0.10	<0.10	0.10
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	<0.50	0.50
1,3,5-Trimethylbenzene	<0.10	<0.10	0.10
1,2,4-Trimethylbenzene	<0.10	<0.10	0.10
Vinyl chloride	<0.010	<0.010	0.010
o-Xylene	<0.10	<0.10	0.10
m,p-Xylenes	<0.10	<0.10	0.10
Isopropanol (IPA)	<1.0	<1.0	1.0

<u>Surrogates</u>			<u>%REC Limits</u>
4-Bromofluorobenzene	92%	91%	70-130
Dibromofluoromethane	113%	107%	70-130
Toluene-d8	94%	101%	70-130

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fixed Gases by TCD - Quality Control										
<i>Batch B3L1939 - *** DEFAULT PREP ***</i>										
Blank (B3L1939-BLK1)				Prepared & Analyzed: 12/11/13						
Methane	<0.10	0.10	% by Volume							
LCS (B3L1939-BS1)				Prepared & Analyzed: 12/11/13						
Methane	4.74	0.10	% by Volume	4.5		105	75-125			
LCS Dup (B3L1939-BSD1)				Prepared & Analyzed: 12/11/13						
Methane	4.70	0.10	% by Volume	4.5		104	75-125	0.911	30	
Duplicate (B3L1939-DUP1)				Source: 3L19003-14 Prepared & Analyzed: 12/11/13						
Methane	<0.10	0.10	% by Volume		<0.10				30	
<i>Batch B3L1940 - *** DEFAULT PREP ***</i>										
Blank (B3L1940-BLK1)				Prepared & Analyzed: 12/12/13						
Methane	<0.10	0.10	% by Volume							
LCS (B3L1940-BS1)				Prepared & Analyzed: 12/12/13						
Methane	4.66	0.10	% by Volume	4.5		104	75-125			
LCS Dup (B3L1940-BSD1)				Prepared & Analyzed: 12/12/13						
Methane	4.73	0.10	% by Volume	4.5		105	75-125	1.49	30	
Duplicate (B3L1940-DUP1)				Source: 3L19003-27 Prepared & Analyzed: 12/12/13						
Methane	<0.10	0.10	% by Volume		<0.10				30	
Duplicate (B3L1940-DUP2)				Source: 3L19003-29 Prepared & Analyzed: 12/12/13						
Methane	<0.10	0.10	% by Volume		<0.10				30	
Duplicate (B3L1940-DUP3)				Source: 3L19003-31 Prepared & Analyzed: 12/12/13						
Methane	<0.10	0.10	% by Volume		<0.10				30	

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Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Fixed Gases by TCD - Quality Control										
<i>Batch B3L2006 - *** DEFAULT PREP ***</i>										
Blank (B3L2006-BLK1) Prepared & Analyzed: 12/13/13										
Methane	<0.10	0.10	% by Volume							
LCS (B3L2006-BS1) Prepared & Analyzed: 12/13/13										
Methane	4.39	0.10	% by Volume	4.5		97.6	75-125			
LCS Dup (B3L2006-BSD1) Prepared & Analyzed: 12/13/13										
Methane	4.48	0.10	% by Volume	4.5		99.6	75-125	2.03	30	
Duplicate (B3L2006-DUP1) Source: 3L19003-38 Prepared & Analyzed: 12/13/13										
Methane	<0.10	0.10	% by Volume		<0.10				30	

VOCs in Vapor by GC/MS - Field - Quality Control

*Batch B3L1925 - *** DEFAULT PREP ****

Blank (B3L1925-BLK1) Prepared & Analyzed: 12/11/13										
Acetone	<1.0	1.0	ug/L							
tert-Amyl Methyl Ether (TAME)	<5.0	5.0	ug/L							
Benzene	<0.030	0.030	ug/L							
Bromobenzene	<0.10	0.10	ug/L							
Bromochloromethane	<0.10	0.10	ug/L							
Bromodichloromethane	<0.10	0.10	ug/L							
Bromoform	<0.10	0.10	ug/L							
Bromomethane	<0.10	0.10	ug/L							
2-Butanone (MEK)	<1.0	1.0	ug/L							
tert-Butyl alcohol (TBA)	<20	20	ug/L							
n-Butylbenzene	<0.10	0.10	ug/L							
sec-Butylbenzene	<0.10	0.10	ug/L							
tert-Butylbenzene	<0.10	0.10	ug/L							
Carbon Disulfide	<0.10	0.10	ug/L							
Carbon Tetrachloride	<0.020	0.020	ug/L							
Chlorobenzene	<0.10	0.10	ug/L							
Chloroethane	<0.10	0.10	ug/L							

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Project Manager



LABORATORY ANALYSIS RESULTS

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1925 - *** DEFAULT PREP ***</i>										
Blank (B3L1925-BLK1) Continued										
Prepared & Analyzed: 12/11/13										
Chloroform	<0.10	0.10	ug/L							
Chloromethane	<0.10	0.10	ug/L							
2-Chlorotoluene	<0.10	0.10	ug/L							
4-Chlorotoluene	<0.10	0.10	ug/L							
1,2-Dibromo-3-chloropropane	<0.10	0.10	ug/L							
Dibromochloromethane	<0.10	0.10	ug/L							
1,2-Dibromoethane (EDB)	<0.10	0.10	ug/L							
Dibromomethane	<0.10	0.10	ug/L							
1,3-Dichlorobenzene	<0.10	0.10	ug/L							
1,2-Dichlorobenzene	<0.10	0.10	ug/L							
1,4-Dichlorobenzene	<0.10	0.10	ug/L							
Dichlorodifluoromethane (R12)	<0.10	0.10	ug/L							
1,1-Dichloroethane	<0.10	0.10	ug/L							
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L							
1,1-Dichloroethylene	<0.10	0.10	ug/L							
cis-1,2-Dichloroethylene	<0.10	0.10	ug/L							
trans-1,2-Dichloroethylene	<0.10	0.10	ug/L							
2,2-Dichloropropane	<0.10	0.10	ug/L							
1,2-Dichloropropane	<0.10	0.10	ug/L							
1,3-Dichloropropane	<0.10	0.10	ug/L							
trans-1,3-Dichloropropylene	<0.10	0.10	ug/L							
cis-1,3-Dichloropropylene	<0.10	0.10	ug/L							
1,1-Dichloropropylene	<0.10	0.10	ug/L							
Diisopropyl ether (DIPE)	<5.0	5.0	ug/L							
Ethylbenzene	<0.10	0.10	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<5.0	5.0	ug/L							
Gasoline Range Organics (GRO)	<10	10	ug/L							
Hexachlorobutadiene	<0.10	0.10	ug/L							
2-Hexanone (MBK)	<1.0	1.0	ug/L							
Isopropylbenzene	<0.10	0.10	ug/L							
4-Isopropyltoluene	<0.10	0.10	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.50	0.50	ug/L							

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1925 - *** DEFAULT PREP ***</i>										
Blank (B3L1925-BLK1) Continued										
Prepared & Analyzed: 12/11/13										
Methylene Chloride	<0.50	0.50	ug/L							
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	ug/L							
Naphthalene	<0.030	0.030	ug/L							
n-Propylbenzene	<0.10	0.10	ug/L							
Styrene	<0.10	0.10	ug/L							
1,1,2,2-Tetrachloroethane	<0.10	0.10	ug/L							
1,1,1,2-Tetrachloroethane	<0.10	0.10	ug/L							
Tetrachloroethylene (PCE)	<0.10	0.10	ug/L							
Toluene	<0.10	0.10	ug/L							
1,2,4-Trichlorobenzene	<0.10	0.10	ug/L							
1,2,3-Trichlorobenzene	<0.10	0.10	ug/L							
1,1,2-Trichloroethane	<0.10	0.10	ug/L							
1,1,1-Trichloroethane	<0.10	0.10	ug/L							
Trichloroethylene (TCE)	<0.10	0.10	ug/L							
Trichlorofluoromethane (R11)	<0.10	0.10	ug/L							
1,2,3-Trichloropropane	<0.10	0.10	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L							
1,3,5-Trimethylbenzene	<0.10	0.10	ug/L							
1,2,4-Trimethylbenzene	<0.10	0.10	ug/L							
Vinyl chloride	<0.010	0.010	ug/L							
o-Xylene	<0.10	0.10	ug/L							
m,p-Xylenes	<0.10	0.10	ug/L							
Isopropanol (IPA)	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>43.9</i>		<i>ug/L</i>	<i>50</i>		<i>87.9</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.8</i>		<i>ug/L</i>	<i>50</i>		<i>108</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>51.5</i>		<i>ug/L</i>	<i>50</i>		<i>103</i>	<i>70-130</i>			
LCS (B3L1925-BS1)										
Prepared & Analyzed: 12/11/13										
Acetone	11.1	1.0	ug/L	20		55.5	75-125	30		AA-C1c
Benzene	24.0	0.030	ug/L	20		120	75-125	30		
Bromobenzene	19.3	0.10	ug/L	20		96.7	75-125	30		

Eydie Schwartz

Eydie Schwartz
Project Manager



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1925 - *** DEFAULT PREP ***</i>										
LCS (B3L1925-BS1) Continued					Prepared & Analyzed: 12/11/13					
Bromochloromethane	19.7	0.10	ug/L	20		98.6	75-125		30	
Bromodichloromethane	18.8	0.10	ug/L	20		94.1	75-125		30	
Bromoform	15.0	0.10	ug/L	20		75.0	75-125		30	
Bromomethane	15.9	0.10	ug/L	20		79.6	75-125		30	
2-Butanone (MEK)	14.0	1.0	ug/L	20		70.0	75-125		30	AA-C1
n-Butylbenzene	20.6	0.10	ug/L	20		103	75-125		30	
sec-Butylbenzene	21.3	0.10	ug/L	20		106	75-125		30	
tert-Butylbenzene	19.5	0.10	ug/L	20		97.6	75-125		30	
Carbon Disulfide	22.0	0.10	ug/L	20		110	75-125		30	
Carbon Tetrachloride	15.5	0.020	ug/L	20		77.5	75-125		30	
Chlorobenzene	18.5	0.10	ug/L	20		92.5	75-125		30	
Chloroethane	23.3	0.10	ug/L	20		117	75-125		30	
Chloroform	18.0	0.10	ug/L	20		89.8	75-125		30	
Chloromethane	24.8	0.10	ug/L	20		124	75-125		30	
2-Chlorotoluene	19.8	0.10	ug/L	20		99.0	75-125		30	
4-Chlorotoluene	18.5	0.10	ug/L	20		92.3	75-125		30	
1,2-Dibromo-3-chloropropane	20.8	0.10	ug/L	20		104	75-125		30	
Dibromochloromethane	15.0	0.10	ug/L	20		75.0	75-125		30	
1,2-Dibromoethane (EDB)	18.2	0.10	ug/L	20		91.0	75-125		30	
Dibromomethane	21.4	0.10	ug/L	20		107	75-125		30	
1,3-Dichlorobenzene	19.4	0.10	ug/L	20		96.8	75-125		30	
1,2-Dichlorobenzene	19.3	0.10	ug/L	20		96.6	75-125		30	
1,4-Dichlorobenzene	19.9	0.10	ug/L	20		99.5	75-125		30	
Dichlorodifluoromethane (R12)	12.8	0.10	ug/L	20		63.9	75-125		30	AA-C1a
1,1-Dichloroethane	22.7	0.10	ug/L	20		113	75-125		30	
1,2-Dichloroethane (EDC)	14.1	0.040	ug/L	20		70.7	75-125		30	AA-C1d
1,1-Dichloroethylene	21.6	0.10	ug/L	20		108	75-125		30	
cis-1,2-Dichloroethylene	23.6	0.10	ug/L	20		118	75-125		30	
trans-1,2-Dichloroethylene	21.9	0.10	ug/L	20		109	75-125		30	
2,2-Dichloropropane	15.7	0.10	ug/L	20		78.6	75-125		30	
1,2-Dichloropropane	25.7	0.10	ug/L	20		128	75-125		30	AA-C2e
1,3-Dichloropropane	17.4	0.10	ug/L	20		87.2	75-125		30	

Eydie Schwartz

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Project Manager



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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1925 - *** DEFAULT PREP ***</i>										
LCS (B3L1925-BS1) Continued						Prepared & Analyzed: 12/11/13				
trans-1,3-Dichloropropylene	16.0	0.10	ug/L	20		80.1	75-125		30	
cis-1,3-Dichloropropylene	20.5	0.10	ug/L	20		102	75-125		30	
1,1-Dichloropropylene	19.5	0.10	ug/L	20		97.5	75-125		30	
Ethylbenzene	17.7	0.10	ug/L	20		88.6	75-125		30	
Hexachlorobutadiene	17.4	0.10	ug/L	20		87.2	75-125		30	
2-Hexanone (MBK)	10.8	1.0	ug/L	20		54.0	75-125		30	AA-C1e
Isopropylbenzene	20.3	0.10	ug/L	20		102	75-125		30	
4-Isopropyltoluene	20.0	0.10	ug/L	20		99.8	75-125		30	
Methyl-tert-Butyl Ether (MTBE)	17.2	0.50	ug/L	20		86.1	75-125		30	
Methylene Chloride	23.1	0.50	ug/L	20		116	75-125		30	
4-Methyl-2-pentanone (MIBK)	21.4	1.0	ug/L	20		107	75-125		30	
Naphthalene	22.0	0.030	ug/L	20		110	75-125		30	
n-Propylbenzene	20.9	0.10	ug/L	20		104	75-125		30	
Styrene	18.3	0.10	ug/L	20		91.5	75-125		30	
1,1,2,2-Tetrachloroethane	19.0	0.10	ug/L	20		95.0	75-125		30	
1,1,1,2-Tetrachloroethane	16.2	0.10	ug/L	20		81.0	75-125		30	
Tetrachloroethylene (PCE)	15.0	0.10	ug/L	20		75.0	75-125		30	
Toluene	18.9	0.10	ug/L	20		94.5	75-125		30	
1,2,3-Trichlorobenzene	19.6	0.10	ug/L	20		98.0	75-125		30	
1,1,2-Trichloroethane	19.2	0.10	ug/L	20		96.0	75-125		30	
1,1,1-Trichloroethane	15.6	0.10	ug/L	20		78.2	75-125		30	
Trichloroethylene (TCE)	20.8	0.10	ug/L	20		104	75-125		30	
Trichlorofluoromethane (R11)	15.0	0.10	ug/L	20		75.0	75-125		30	
1,2,3-Trichloropropane	21.2	0.10	ug/L	20		106	75-125		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	19.3	0.50	ug/L	20		96.6	75-125		30	
1,3,5-Trimethylbenzene	20.2	0.10	ug/L	20		101	75-125		30	
1,2,4-Trimethylbenzene	20.0	0.10	ug/L	20		100	75-125		30	
Vinyl chloride	22.9	0.010	ug/L	20		115	75-125		30	
o-Xylene	19.4	0.10	ug/L	20		96.8	75-125		30	
m,p-Xylenes	37.6	0.10	ug/L	40		94.0	75-125		30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1925 - *** DEFAULT PREP ***

LCS (B3L1925-BS1) Continued

Prepared & Analyzed: 12/11/13

Surrogate: 4-Bromofluorobenzene	47.9		ug/L	50		95.7	75-125			
Surrogate: Dibromofluoromethane	58.0		ug/L	50		116	75-125			
Surrogate: Toluene-d8	47.0		ug/L	50		94.1	75-125			

LCS Dup (B3L1925-BSD1)

Prepared & Analyzed: 12/11/13

Acetone	17.4	1.0	ug/L	20		87.0	75-125	44.3	30	AA-C3
Benzene	26.3	0.030	ug/L	20		132	75-125	8.94	30	AA-C2a
Bromobenzene	21.6	0.10	ug/L	20		108	75-125	11.2	30	
Bromochloromethane	23.4	0.10	ug/L	20		117	75-125	17.2	30	
Bromodichloromethane	20.4	0.10	ug/L	20		102	75-125	8.20	30	
Bromoform	16.4	0.10	ug/L	20		82.0	75-125	8.92	30	
Bromomethane	17.7	0.10	ug/L	20		88.6	75-125	10.8	30	
2-Butanone (MEK)	15.1	1.0	ug/L	20		75.5	75-125	7.56	30	
n-Butylbenzene	20.9	0.10	ug/L	20		104	75-125	1.40	30	
sec-Butylbenzene	22.6	0.10	ug/L	20		113	75-125	6.10	30	
tert-Butylbenzene	21.0	0.10	ug/L	20		105	75-125	7.35	30	
Carbon Disulfide	22.4	0.10	ug/L	20		112	75-125	1.98	30	
Carbon Tetrachloride	16.5	0.020	ug/L	20		82.4	75-125	6.13	30	
Chlorobenzene	20.4	0.10	ug/L	20		102	75-125	9.82	30	
Chloroethane	25.0	0.10	ug/L	20		125	75-125	6.87	30	
Chloroform	20.0	0.10	ug/L	20		100	75-125	10.9	30	
Chloromethane	30.7	0.10	ug/L	20		154	75-125	21.1	30	AA-C2
2-Chlorotoluene	21.6	0.10	ug/L	20		108	75-125	8.65	30	
4-Chlorotoluene	20.3	0.10	ug/L	20		102	75-125	9.49	30	
1,2-Dibromo-3-chloropropane	23.5	0.10	ug/L	20		118	75-125	12.2	30	
Dibromochloromethane	17.1	0.10	ug/L	20		85.5	75-125	13.1	30	
1,2-Dibromoethane (EDB)	20.0	0.10	ug/L	20		100	75-125	9.52	30	
Dibromomethane	23.8	0.10	ug/L	20		119	75-125	10.5	30	
1,3-Dichlorobenzene	20.7	0.10	ug/L	20		104	75-125	6.69	30	
1,2-Dichlorobenzene	21.8	0.10	ug/L	20		109	75-125	12.1	30	
1,4-Dichlorobenzene	20.0	0.10	ug/L	20		100	75-125	0.551	30	
Dichlorodifluoromethane (R12)	12.6	0.10	ug/L	20		63.0	75-125	1.34	30	AA-C1c
1,1-Dichloroethane	25.8	0.10	ug/L	20		129	75-125	12.9	30	AA-C2a

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

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Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1925 - *** DEFAULT PREP ***

LCS Dup (B3L1925-BSD1) Continued

Prepared & Analyzed: 12/11/13

1,2-Dichloroethane (EDC)	15.7	0.040	ug/L	20		78.5	75-125	10.5	30	
1,1-Dichloroethylene	22.0	0.10	ug/L	20		110	75-125	2.16	30	
cis-1,2-Dichloroethylene	27.3	0.10	ug/L	20		136	75-125	14.7	30	AA-C2a
trans-1,2-Dichloroethylene	23.5	0.10	ug/L	20		118	75-125	7.14	30	
2,2-Dichloropropane	14.4	0.10	ug/L	20		72.1	75-125	8.63	30	AA-C1c
1,2-Dichloropropane	28.4	0.10	ug/L	20		142	75-125	10.0	30	AA-C2a
1,3-Dichloropropane	20.0	0.10	ug/L	20		99.9	75-125	13.5	30	
trans-1,3-Dichloropropylene	17.7	0.10	ug/L	20		88.6	75-125	10.0	30	
cis-1,3-Dichloropropylene	22.5	0.10	ug/L	20		113	75-125	9.48	30	
1,1-Dichloropropylene	20.6	0.10	ug/L	20		103	75-125	5.49	30	
Ethylbenzene	18.8	0.10	ug/L	20		94.0	75-125	5.91	30	
Hexachlorobutadiene	16.3	0.10	ug/L	20		81.5	75-125	6.76	30	
2-Hexanone (MBK)	12.4	1.0	ug/L	20		62.0	75-125	13.7	30	AA-C1c
Isopropylbenzene	22.3	0.10	ug/L	20		112	75-125	9.34	30	
4-Isopropyltoluene	21.4	0.10	ug/L	20		107	75-125	6.96	30	
Methyl-tert-Butyl Ether (MTBE)	19.0	0.50	ug/L	20		95.0	75-125	9.88	30	
Methylene Chloride	25.0	0.50	ug/L	20		125	75-125	7.77	30	
4-Methyl-2-pentanone (MIBK)	23.6	1.0	ug/L	20		118	75-125	9.64	30	
Naphthalene	23.6	0.030	ug/L	20		118	75-125	7.24	30	
n-Propylbenzene	22.6	0.10	ug/L	20		113	75-125	7.86	30	
Styrene	20.1	0.10	ug/L	20		100	75-125	9.38	30	
1,1,2,2-Tetrachloroethane	21.1	0.10	ug/L	20		106	75-125	10.5	30	
1,1,1,2-Tetrachloroethane	17.6	0.10	ug/L	20		88.2	75-125	8.57	30	
Tetrachloroethylene (PCE)	15.8	0.10	ug/L	20		79.0	75-125	5.13	30	
Toluene	20.3	0.10	ug/L	20		102	75-125	7.14	30	
1,2,3-Trichlorobenzene	20.9	0.10	ug/L	20		104	75-125	6.28	30	
1,1,2-Trichloroethane	21.5	0.10	ug/L	20		108	75-125	11.3	30	
1,1,1-Trichloroethane	16.3	0.10	ug/L	20		81.6	75-125	4.38	30	
Trichloroethylene (TCE)	22.3	0.10	ug/L	20		112	75-125	6.77	30	
Trichlorofluoromethane (R11)	15.0	0.10	ug/L	20		75.0	75-125	0.00	30	
1,2,3-Trichloropropane	19.2	0.10	ug/L	20		96.0	75-125	10.1	30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1925 - *** DEFAULT PREP ***</i>										
LCS Dup (B3L1925-BSD1) Continued										
Prepared & Analyzed: 12/11/13										
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	19.7	0.50	ug/L	20		98.7	75-125	2.15	30	
1,3,5-Trimethylbenzene	21.6	0.10	ug/L	20		108	75-125	6.51	30	
1,2,4-Trimethylbenzene	21.7	0.10	ug/L	20		108	75-125	8.10	30	
Vinyl chloride	24.4	0.010	ug/L	20		122	75-125	6.34	30	
o-Xylene	20.7	0.10	ug/L	20		104	75-125	6.74	30	
m,p-Xylenes	40.4	0.10	ug/L	40		101	75-125	7.28	30	
Surrogate: 4-Bromofluorobenzene	49.0		ug/L	50		98.0	75-125			
Surrogate: Dibromofluoromethane	56.9		ug/L	50		114	75-125			
Surrogate: Toluene-d8	46.6		ug/L	50		93.2	75-125			
Duplicate (B3L1925-DUP1)										
Source: 3L19003-14 Prepared & Analyzed: 12/11/13										
Acetone	<1.0	1.0	ug/L		<1.0				30	
tert-Amyl Methyl Ether (TAME)	<5.0	5.0	ug/L		<5.0				30	
Benzene	<0.030	0.030	ug/L		<0.030				30	
Bromobenzene	<0.10	0.10	ug/L		<0.10				30	
Bromochloromethane	<0.10	0.10	ug/L		<0.10				30	
Bromodichloromethane	<0.10	0.10	ug/L		<0.10				30	
Bromoform	<0.10	0.10	ug/L		<0.10				30	
Bromomethane	<0.10	0.10	ug/L		<0.10				30	
2-Butanone (MEK)	<1.0	1.0	ug/L		<1.0				30	
tert-Butyl alcohol (TBA)	<20	20	ug/L		<20				30	
n-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
sec-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
tert-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
Carbon Disulfide	<0.10	0.10	ug/L		<0.10				30	
Carbon Tetrachloride	<0.020	0.020	ug/L		<0.020				30	
Chlorobenzene	<0.10	0.10	ug/L		<0.10				30	
Chloroethane	<0.10	0.10	ug/L		<0.10				30	
Chloroform	<0.10	0.10	ug/L		<0.10				30	
Chloromethane	<0.10	0.10	ug/L		<0.10				30	
2-Chlorotoluene	<0.10	0.10	ug/L		<0.10				30	

Eydie Schwartz

Eydie Schwartz
 Project Manager

**LABORATORY ANALYSIS RESULTS**

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1925 - *** DEFAULT PREP ***</i>										
Duplicate (B3L1925-DUP1) Continued Source: 3L19003-14 Prepared & Analyzed: 12/11/13										
4-Chlorotoluene	<0.10	0.10	ug/L		<0.10				30	
1,2-Dibromo-3-chloropropane	<0.10	0.10	ug/L		<0.10				30	
Dibromochloromethane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dibromoethane (EDB)	<0.10	0.10	ug/L		<0.10				30	
Dibromomethane	<0.10	0.10	ug/L		<0.10				30	
1,3-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
1,4-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
Dichlorodifluoromethane (R12)	<0.10	0.10	ug/L		<0.10				30	
1,1-Dichloroethane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L		<0.040				30	
1,1-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
cis-1,2-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
trans-1,2-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
2,2-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
1,3-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
trans-1,3-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
cis-1,3-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
1,1-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
Diisopropyl ether (DIPE)	<5.0	5.0	ug/L		<5.0				30	
Ethylbenzene	<0.10	0.10	ug/L		<0.10				30	
Ethyl-tert-Butyl Ether (ETBE)	<5.0	5.0	ug/L		<5.0				30	
Gasoline Range Organics (GRO)	<10	10	ug/L		<10				30	
Hexachlorobutadiene	<0.10	0.10	ug/L		<0.10				30	
2-Hexanone (MBK)	<1.0	1.0	ug/L		<1.0				30	
Isopropylbenzene	<0.10	0.10	ug/L		<0.10				30	
4-Isopropyltoluene	<0.10	0.10	ug/L		<0.10				30	
Methyl-tert-Butyl Ether (MTBE)	<0.50	0.50	ug/L		<0.50				30	
Methylene Chloride	<0.50	0.50	ug/L		<0.50				30	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	ug/L		<1.0				30	
Naphthalene	<0.030	0.030	ug/L		<0.030				30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Table with 11 columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1925 - *** DEFAULT PREP ***

Duplicate (B3L1925-DUP1) Continued Source: 3L19003-14 Prepared & Analyzed: 12/11/13

Table listing VOCs such as n-Propylbenzene, Styrene, 1,1,2,2-Tetrachloroethane, etc., with their respective results and reporting limits.

Table listing surrogate compounds: 4-Bromofluorobenzene, Dibromofluoromethane, and Toluene-d8 with their results and reporting limits.

Batch B3L1932 - *** DEFAULT PREP ***

Blank (B3L1932-BLK1) Prepared & Analyzed: 12/12/13

Table listing blank test results for Acetone, tert-Amyl Methyl Ether (TAME), Benzene, Bromobenzene, and Bromochloromethane.

Eydie Schwartz (handwritten signature)

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1932 - *** DEFAULT PREP ***</i>										
Blank (B3L1932-BLK1) Continued										
Prepared & Analyzed: 12/12/13										
Bromodichloromethane	<0.10	0.10	ug/L							
Bromoform	<0.10	0.10	ug/L							
Bromomethane	<0.10	0.10	ug/L							
2-Butanone (MEK)	<1.0	1.0	ug/L							
tert-Butyl alcohol (TBA)	<20	20	ug/L							
n-Butylbenzene	<0.10	0.10	ug/L							
sec-Butylbenzene	<0.10	0.10	ug/L							
tert-Butylbenzene	<0.10	0.10	ug/L							
Carbon Disulfide	<0.10	0.10	ug/L							
Carbon Tetrachloride	<0.020	0.020	ug/L							
Chlorobenzene	<0.10	0.10	ug/L							
Chloroethane	<0.10	0.10	ug/L							
Chloroform	<0.10	0.10	ug/L							
Chloromethane	<0.10	0.10	ug/L							
2-Chlorotoluene	<0.10	0.10	ug/L							
4-Chlorotoluene	<0.10	0.10	ug/L							
1,2-Dibromo-3-chloropropane	<0.10	0.10	ug/L							
Dibromochloromethane	<0.10	0.10	ug/L							
1,2-Dibromoethane (EDB)	<0.10	0.10	ug/L							
Dibromomethane	<0.10	0.10	ug/L							
1,3-Dichlorobenzene	<0.10	0.10	ug/L							
1,2-Dichlorobenzene	<0.10	0.10	ug/L							
1,4-Dichlorobenzene	<0.10	0.10	ug/L							
Dichlorodifluoromethane (R12)	<0.10	0.10	ug/L							
1,1-Dichloroethane	<0.10	0.10	ug/L							
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L							
1,1-Dichloroethylene	<0.10	0.10	ug/L							
cis-1,2-Dichloroethylene	<0.10	0.10	ug/L							
trans-1,2-Dichloroethylene	<0.10	0.10	ug/L							
2,2-Dichloropropane	<0.10	0.10	ug/L							
1,2-Dichloropropane	<0.10	0.10	ug/L							
1,3-Dichloropropane	<0.10	0.10	ug/L							

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1932 - *** DEFAULT PREP ***</i>										
Blank (B3L1932-BLK1) Continued										
Prepared & Analyzed: 12/12/13										
trans-1,3-Dichloropropylene	<0.10	0.10	ug/L							
cis-1,3-Dichloropropylene	<0.10	0.10	ug/L							
1,1-Dichloropropylene	<0.10	0.10	ug/L							
Diisopropyl ether (DIPE)	<5.0	5.0	ug/L							
Ethylbenzene	<0.10	0.10	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<5.0	5.0	ug/L							
Gasoline Range Organics (GRO)	<10	10	ug/L							
Hexachlorobutadiene	<0.10	0.10	ug/L							
2-Hexanone (MBK)	<1.0	1.0	ug/L							
Isopropylbenzene	<0.10	0.10	ug/L							
4-Isopropyltoluene	<0.10	0.10	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.50	0.50	ug/L							
Methylene Chloride	<0.50	0.50	ug/L							
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	ug/L							
Naphthalene	<0.030	0.030	ug/L							
n-Propylbenzene	<0.10	0.10	ug/L							
Styrene	<0.10	0.10	ug/L							
1,1,2,2-Tetrachloroethane	<0.10	0.10	ug/L							
1,1,1,2-Tetrachloroethane	<0.10	0.10	ug/L							
Tetrachloroethylene (PCE)	<0.10	0.10	ug/L							
Toluene	<0.10	0.10	ug/L							
1,2,4-Trichlorobenzene	<0.10	0.10	ug/L							
1,2,3-Trichlorobenzene	<0.10	0.10	ug/L							
1,1,2-Trichloroethane	<0.10	0.10	ug/L							
1,1,1-Trichloroethane	<0.10	0.10	ug/L							
Trichloroethylene (TCE)	<0.10	0.10	ug/L							
Trichlorofluoromethane (R11)	<0.10	0.10	ug/L							
1,2,3-Trichloropropane	<0.10	0.10	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L							
1,3,5-Trimethylbenzene	<0.10	0.10	ug/L							
1,2,4-Trimethylbenzene	<0.10	0.10	ug/L							

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1932 - *** DEFAULT PREP ***</i>										
Blank (B3L1932-BLK1) Continued										
Prepared & Analyzed: 12/12/13										
Vinyl chloride	<0.010	0.010	ug/L							
o-Xylene	<0.10	0.10	ug/L							
m,p-Xylenes	<0.10	0.10	ug/L							
Isopropanol (IPA)	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>44.8</i>		<i>ug/L</i>	<i>50</i>		<i>89.6</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.2</i>		<i>ug/L</i>	<i>50</i>		<i>116</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.4</i>		<i>ug/L</i>	<i>50</i>		<i>98.9</i>	<i>70-130</i>			
LCS (B3L1932-BS1)										
Prepared & Analyzed: 12/12/13										
Acetone	36.8	1.0	ug/L	20		184	75-125	30		AA-C1b
Benzene	24.5	0.030	ug/L	20		122	75-125	30		
Bromobenzene	19.3	0.10	ug/L	20		96.6	75-125	30		
Bromochloromethane	23.9	0.10	ug/L	20		120	75-125	30		
Bromodichloromethane	19.4	0.10	ug/L	20		97.2	75-125	30		
Bromoform	15.8	0.10	ug/L	20		79.0	75-125	30		
Bromomethane	15.9	0.10	ug/L	20		79.4	75-125	30		
2-Butanone (MEK)	25.0	1.0	ug/L	20		125	75-125	30		
n-Butylbenzene	20.1	0.10	ug/L	20		100	75-125	30		
sec-Butylbenzene	20.7	0.10	ug/L	20		104	75-125	30		
tert-Butylbenzene	19.0	0.10	ug/L	20		95.0	75-125	30		
Carbon Disulfide	22.5	0.10	ug/L	20		112	75-125	30		
Carbon Tetrachloride	15.7	0.020	ug/L	20		78.6	75-125	30		
Chlorobenzene	18.7	0.10	ug/L	20		93.6	75-125	30		
Chloroethane	23.3	0.10	ug/L	20		116	75-125	30		
Chloroform	18.4	0.10	ug/L	20		92.0	75-125	30		
Chloromethane	28.0	0.10	ug/L	20		140	75-125	30		AA-C2a
2-Chlorotoluene	19.3	0.10	ug/L	20		96.7	75-125	30		
4-Chlorotoluene	18.8	0.10	ug/L	20		94.0	75-125	30		
1,2-Dibromo-3-chloropropane	18.4	0.10	ug/L	20		92.0	75-125	30		
Dibromochloromethane	15.8	0.10	ug/L	20		79.0	75-125	30		
1,2-Dibromoethane (EDB)	19.3	0.10	ug/L	20		96.3	75-125	30		
Dibromomethane	23.3	0.10	ug/L	20		116	75-125	30		

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1932 - *** DEFAULT PREP ***</i>										
LCS (B3L1932-BS1) Continued						Prepared & Analyzed: 12/12/13				
1,3-Dichlorobenzene	20.1	0.10	ug/L	20		100	75-125		30	
1,2-Dichlorobenzene	19.8	0.10	ug/L	20		99.0	75-125		30	
1,4-Dichlorobenzene	18.6	0.10	ug/L	20		93.2	75-125		30	
Dichlorodifluoromethane (R12)	12.3	0.10	ug/L	20		61.6	75-125		30	AA-C1c
1,1-Dichloroethane	22.4	0.10	ug/L	20		112	75-125		30	
1,2-Dichloroethane (EDC)	15.4	0.040	ug/L	20		77.0	75-125		30	
1,1-Dichloroethylene	21.9	0.10	ug/L	20		110	75-125		30	
cis-1,2-Dichloroethylene	24.5	0.10	ug/L	20		122	75-125		30	
trans-1,2-Dichloroethylene	21.7	0.10	ug/L	20		108	75-125		30	
2,2-Dichloropropane	15.3	0.10	ug/L	20		76.6	75-125		30	
1,2-Dichloropropane	26.6	0.10	ug/L	20		133	75-125		30	AA-C2a
1,3-Dichloropropane	18.2	0.10	ug/L	20		91.2	75-125		30	
trans-1,3-Dichloropropylene	16.8	0.10	ug/L	20		83.8	75-125		30	
cis-1,3-Dichloropropylene	22.2	0.10	ug/L	20		111	75-125		30	
1,1-Dichloropropylene	19.0	0.10	ug/L	20		94.9	75-125		30	
Ethylbenzene	17.4	0.10	ug/L	20		87.0	75-125		30	
Hexachlorobutadiene	16.8	0.10	ug/L	20		84.2	75-125		30	
2-Hexanone (MBK)	18.8	1.0	ug/L	20		94.2	75-125		30	
Isopropylbenzene	19.8	0.10	ug/L	20		99.1	75-125		30	
4-Isopropyltoluene	19.6	0.10	ug/L	20		98.0	75-125		30	
Methyl-tert-Butyl Ether (MTBE)	18.2	0.50	ug/L	20		90.9	75-125		30	
Methylene Chloride	23.8	0.50	ug/L	20		119	75-125		30	
4-Methyl-2-pentanone (MIBK)	23.6	1.0	ug/L	20		118	75-125		30	
Naphthalene	19.6	0.030	ug/L	20		98.2	75-125		30	
n-Propylbenzene	20.4	0.10	ug/L	20		102	75-125		30	
Styrene	18.8	0.10	ug/L	20		94.0	75-125		30	
1,1,2,2-Tetrachloroethane	19.4	0.10	ug/L	20		97.2	75-125		30	
1,1,1,2-Tetrachloroethane	16.3	0.10	ug/L	20		81.6	75-125		30	
Tetrachloroethylene (PCE)	15.0	0.10	ug/L	20		75.0	75-125		30	
Toluene	18.2	0.10	ug/L	20		91.1	75-125		30	
1,2,3-Trichlorobenzene	18.6	0.10	ug/L	20		92.8	75-125		30	
1,1,2-Trichloroethane	19.9	0.10	ug/L	20		99.6	75-125		30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1932 - *** DEFAULT PREP ***</i>										
LCS (B3L1932-BS1) Continued					Prepared & Analyzed: 12/12/13					
1,1,1-Trichloroethane	15.5	0.10	ug/L	20		77.5	75-125		30	
Trichloroethylene (TCE)	21.2	0.10	ug/L	20		106	75-125		30	
Trichlorofluoromethane (R11)	15.0	0.10	ug/L	20		75.0	75-125		30	
1,2,3-Trichloropropane	18.3	0.10	ug/L	20		91.6	75-125		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.6	0.50	ug/L	20		93.0	75-125		30	
1,3,5-Trimethylbenzene	19.3	0.10	ug/L	20		96.7	75-125		30	
1,2,4-Trimethylbenzene	19.6	0.10	ug/L	20		97.8	75-125		30	
Vinyl chloride	22.8	0.010	ug/L	20		114	75-125		30	
o-Xylene	19.4	0.10	ug/L	20		96.8	75-125		30	
m,p-Xylenes	38.1	0.10	ug/L	40		95.2	75-125		30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.4</i>		<i>ug/L</i>	<i>50</i>		<i>94.7</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>56.7</i>		<i>ug/L</i>	<i>50</i>		<i>113</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>46.3</i>		<i>ug/L</i>	<i>50</i>		<i>92.6</i>	<i>75-125</i>			
LCS Dup (B3L1932-BSD1)					Prepared & Analyzed: 12/12/13					
Acetone	12.3	1.0	ug/L	20		61.6	75-125	99.7	30	AA-C1c
Benzene	23.4	0.030	ug/L	20		117	75-125	4.38	30	
Bromobenzene	19.3	0.10	ug/L	20		96.5	75-125	0.155	30	
Bromochloromethane	19.1	0.10	ug/L	20		95.5	75-125	22.4	30	
Bromodichloromethane	16.7	0.10	ug/L	20		83.5	75-125	15.2	30	
Bromoform	13.6	0.10	ug/L	20		68.2	75-125	14.8	30	AA-C1c
Bromomethane	17.5	0.10	ug/L	20		87.5	75-125	9.71	30	
2-Butanone (MEK)	13.1	1.0	ug/L	20		65.5	75-125	62.5	30	AA-C1c
n-Butylbenzene	21.8	0.10	ug/L	20		109	75-125	8.25	30	
sec-Butylbenzene	22.8	0.10	ug/L	20		114	75-125	9.87	30	
tert-Butylbenzene	20.7	0.10	ug/L	20		104	75-125	8.51	30	
Carbon Disulfide	21.3	0.10	ug/L	20		106	75-125	5.48	30	
Carbon Tetrachloride	15.0	0.020	ug/L	20		75.0	75-125	4.75	30	
Chlorobenzene	19.0	0.10	ug/L	20		94.8	75-125	1.22	30	
Chloroethane	22.6	0.10	ug/L	20		113	75-125	3.27	30	
Chloroform	16.6	0.10	ug/L	20		83.2	75-125	9.99	30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Table with 11 columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1932 - *** DEFAULT PREP ***

LCS Dup (B3L1932-BSD1) Continued

Prepared & Analyzed: 12/12/13

Main data table listing analytes such as Chloromethane, 2-Chlorotoluene, etc., with columns for Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, and Notes.

Eydie Schwartz (handwritten signature)

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1932 - *** DEFAULT PREP ***

LCS Dup (B3L1932-BSD1) Continued

Prepared & Analyzed: 12/12/13

Styrene	18.9	0.10	ug/L	20		94.4	75-125	0.425	30	
1,1,2,2-Tetrachloroethane	17.1	0.10	ug/L	20		85.7	75-125	12.6	30	
1,1,1,2-Tetrachloroethane	16.0	0.10	ug/L	20		79.8	75-125	2.17	30	
Tetrachloroethylene (PCE)	15.7	0.10	ug/L	20		78.6	75-125	4.69	30	
Toluene	20.8	0.10	ug/L	20		104	75-125	13.0	30	
1,2,3-Trichlorobenzene	20.1	0.10	ug/L	20		101	75-125	8.17	30	
1,1,2-Trichloroethane	18.0	0.10	ug/L	20		90.2	75-125	9.86	30	
1,1,1-Trichloroethane	14.4	0.10	ug/L	20		72.0	75-125	7.36	30	AA-C1
Trichloroethylene (TCE)	19.7	0.10	ug/L	20		98.7	75-125	7.13	30	
Trichlorofluoromethane (R11)	14.5	0.10	ug/L	20		72.5	75-125	3.39	30	AA-C1
1,2,3-Trichloropropane	15.3	0.10	ug/L	20		76.6	75-125	17.9	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	17.9	0.50	ug/L	20		89.5	75-125	3.84	30	
1,3,5-Trimethylbenzene	21.5	0.10	ug/L	20		108	75-125	10.6	30	
1,2,4-Trimethylbenzene	21.4	0.10	ug/L	20		107	75-125	9.22	30	
Vinyl chloride	21.7	0.010	ug/L	20		108	75-125	4.90	30	
o-Xylene	20.3	0.10	ug/L	20		102	75-125	4.79	30	
m,p-Xylenes	41.4	0.10	ug/L	40		103	75-125	8.25	30	
Surrogate: 4-Bromofluorobenzene	47.1		ug/L	50		94.2	75-125			
Surrogate: Dibromofluoromethane	50.8		ug/L	50		102	75-125			
Surrogate: Toluene-d8	48.3		ug/L	50		96.5	75-125			

Duplicate (B3L1932-DUP1)

Source: 3L19003-27 Prepared & Analyzed: 12/12/13

Acetone	<1.0	1.0	ug/L			<1.0			30	
tert-Amyl Methyl Ether (TAME)	<5.0	5.0	ug/L			<5.0			30	
Benzene	<0.030	0.030	ug/L			<0.030			30	
Bromobenzene	<0.10	0.10	ug/L			<0.10			30	
Bromochloromethane	<0.10	0.10	ug/L			<0.10			30	
Bromodichloromethane	<0.10	0.10	ug/L			<0.10			30	
Bromoform	<0.10	0.10	ug/L			<0.10			30	
Bromomethane	<0.10	0.10	ug/L			<0.10			30	
2-Butanone (MEK)	<1.0	1.0	ug/L			<1.0			30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1932 - *** DEFAULT PREP ***

Duplicate (B3L1932-DUP1) Continued Source: 3L19003-27 Prepared & Analyzed: 12/12/13

tert-Butyl alcohol (TBA)	<20	20	ug/L		<20				30	
n-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
sec-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
tert-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
Carbon Disulfide	<0.10	0.10	ug/L		<0.10				30	
Carbon Tetrachloride	<0.020	0.020	ug/L		<0.020				30	
Chlorobenzene	<0.10	0.10	ug/L		<0.10				30	
Chloroethane	<0.10	0.10	ug/L		<0.10				30	
Chloroform	<0.10	0.10	ug/L		<0.10				30	
Chloromethane	<0.10	0.10	ug/L		<0.10				30	
2-Chlorotoluene	<0.10	0.10	ug/L		<0.10				30	
4-Chlorotoluene	<0.10	0.10	ug/L		<0.10				30	
1,2-Dibromo-3-chloropropane	<0.10	0.10	ug/L		<0.10				30	
Dibromochloromethane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dibromoethane (EDB)	<0.10	0.10	ug/L		<0.10				30	
Dibromomethane	<0.10	0.10	ug/L		<0.10				30	
1,3-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
1,4-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
Dichlorodifluoromethane (R12)	<0.10	0.10	ug/L		<0.10				30	
1,1-Dichloroethane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L		<0.040				30	
1,1-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
cis-1,2-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
trans-1,2-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
2,2-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
1,3-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
trans-1,3-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
cis-1,3-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
1,1-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
Diisopropyl ether (DIPE)	<5.0	5.0	ug/L		<5.0				30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Table with 11 columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1932 - *** DEFAULT PREP ***

Duplicate (B3L1932-DUP1) Continued Source: 3L19003-27 Prepared & Analyzed: 12/12/13

Main data table listing various VOCs (e.g., Ethylbenzene, Gasoline Range Organics) with their respective results, reporting limits, and RPD values.

Eydie Schwartz (handwritten signature)

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1932 - *** DEFAULT PREP ***

Duplicate (B3L1932-DUP1) Continued Source: 3L19003-27 Prepared & Analyzed: 12/12/13

Surrogate: 4-Bromofluorobenzene	45.6		ug/L	50		91.2	70-130			
Surrogate: Dibromofluoromethane	58.4		ug/L	50		117	70-130			
Surrogate: Toluene-d8	47.6		ug/L	50		95.1	70-130			

Duplicate (B3L1932-DUP2) Source: 3L19003-29 Prepared & Analyzed: 12/12/13

Acetone	<1.0	1.0	ug/L		<1.0				30	
tert-Amyl Methyl Ether (TAME)	<5.0	5.0	ug/L		<5.0				30	
Benzene	<0.030	0.030	ug/L		<0.030				30	
Bromobenzene	<0.10	0.10	ug/L		<0.10				30	
Bromochloromethane	<0.10	0.10	ug/L		<0.10				30	
Bromodichloromethane	<0.10	0.10	ug/L		<0.10				30	
Bromoform	<0.10	0.10	ug/L		<0.10				30	
Bromomethane	<0.10	0.10	ug/L		<0.10				30	
2-Butanone (MEK)	<1.0	1.0	ug/L		<1.0				30	
tert-Butyl alcohol (TBA)	<20	20	ug/L		<20				30	
n-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
sec-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
tert-Butylbenzene	<0.10	0.10	ug/L		<0.10				30	
Carbon Disulfide	<0.10	0.10	ug/L		<0.10				30	
Carbon Tetrachloride	<0.020	0.020	ug/L		<0.020				30	
Chlorobenzene	<0.10	0.10	ug/L		<0.10				30	
Chloroethane	<0.10	0.10	ug/L		<0.10				30	
Chloroform	<0.10	0.10	ug/L		<0.10				30	
Chloromethane	<0.10	0.10	ug/L		<0.10				30	
2-Chlorotoluene	<0.10	0.10	ug/L		<0.10				30	
4-Chlorotoluene	<0.10	0.10	ug/L		<0.10				30	
1,2-Dibromo-3-chloropropane	<0.10	0.10	ug/L		<0.10				30	
Dibromochloromethane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dibromoethane (EDB)	<0.10	0.10	ug/L		<0.10				30	
Dibromomethane	<0.10	0.10	ug/L		<0.10				30	
1,3-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1932 - *** DEFAULT PREP ***</i>										
Duplicate (B3L1932-DUP2) Continued Source: 3L19003-29 Prepared & Analyzed: 12/12/13										
1,4-Dichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
Dichlorodifluoromethane (R12)	<0.10	0.10	ug/L		<0.10				30	
1,1-Dichloroethane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L		<0.040				30	
1,1-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
cis-1,2-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
trans-1,2-Dichloroethylene	<0.10	0.10	ug/L		<0.10				30	
2,2-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
1,2-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
1,3-Dichloropropane	<0.10	0.10	ug/L		<0.10				30	
trans-1,3-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
cis-1,3-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
1,1-Dichloropropylene	<0.10	0.10	ug/L		<0.10				30	
Diisopropyl ether (DIPE)	<5.0	5.0	ug/L		<5.0				30	
Ethylbenzene	<0.10	0.10	ug/L		<0.10				30	
Ethyl-tert-Butyl Ether (ETBE)	<5.0	5.0	ug/L		<5.0				30	
Gasoline Range Organics (GRO)	<10	10	ug/L		<10				30	
Hexachlorobutadiene	<0.10	0.10	ug/L		<0.10				30	
2-Hexanone (MBK)	<1.0	1.0	ug/L		<1.0				30	
Isopropylbenzene	<0.10	0.10	ug/L		<0.10				30	
4-Isopropyltoluene	<0.10	0.10	ug/L		<0.10				30	
Methyl-tert-Butyl Ether (MTBE)	<0.50	0.50	ug/L		<0.50				30	
Methylene Chloride	<0.50	0.50	ug/L		<0.50				30	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	ug/L		<1.0				30	
Naphthalene	<0.030	0.030	ug/L		<0.030				30	
n-Propylbenzene	<0.10	0.10	ug/L		<0.10				30	
Styrene	<0.10	0.10	ug/L		<0.10				30	
1,1,2,2-Tetrachloroethane	<0.10	0.10	ug/L		<0.10				30	
1,1,1,2-Tetrachloroethane	<0.10	0.10	ug/L		<0.10				30	
Tetrachloroethylene (PCE)	<0.10	0.10	ug/L		<0.10				30	
Toluene	<0.10	0.10	ug/L		<0.10				30	
1,2,4-Trichlorobenzene	<0.10	0.10	ug/L		<0.10				30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1932 - *** DEFAULT PREP ***</i>										
Duplicate (B3L1932-DUP2) Continued Source: 3L19003-29 Prepared & Analyzed: 12/12/13										
1,2,3-Trichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
1,1,2-Trichloroethane	<0.10	0.10	ug/L		<0.10				30	
1,1,1-Trichloroethane	<0.10	0.10	ug/L		<0.10				30	
Trichloroethylene (TCE)	<0.10	0.10	ug/L		<0.10				30	
Trichlorofluoromethane (R11)	<0.10	0.10	ug/L		<0.10				30	
1,2,3-Trichloropropane	<0.10	0.10	ug/L		<0.10				30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L		<0.50				30	
1,3,5-Trimethylbenzene	<0.10	0.10	ug/L		<0.10				30	
1,2,4-Trimethylbenzene	<0.10	0.10	ug/L		<0.10				30	
Vinyl chloride	<0.010	0.010	ug/L		<0.010				30	
o-Xylene	<0.10	0.10	ug/L		<0.10				30	
m,p-Xylenes	<0.10	0.10	ug/L		<0.10				30	
Isopropanol (IPA)	<1.0	1.0	ug/L		<1.0					
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.7</i>		<i>ug/L</i>	<i>50</i>		<i>91.5</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>58.0</i>		<i>ug/L</i>	<i>50</i>		<i>116</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>49.0</i>		<i>ug/L</i>	<i>50</i>		<i>98.0</i>	<i>70-130</i>			
<i>Batch B3L1936 - *** DEFAULT PREP ***</i>										
Blank (B3L1936-BLK1) Prepared & Analyzed: 12/13/13										
Acetone	<1.0	1.0	ug/L							
tert-Amyl Methyl Ether (TAME)	<5.0	5.0	ug/L							
Benzene	<0.030	0.030	ug/L							
Bromobenzene	<0.10	0.10	ug/L							
Bromochloromethane	<0.10	0.10	ug/L							
Bromodichloromethane	<0.10	0.10	ug/L							
Bromoform	<0.10	0.10	ug/L							
Bromomethane	<0.10	0.10	ug/L							
2-Butanone (MEK)	<1.0	1.0	ug/L							
tert-Butyl alcohol (TBA)	<20	20	ug/L							
n-Butylbenzene	<0.10	0.10	ug/L							
sec-Butylbenzene	<0.10	0.10	ug/L							

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC %REC	Limit	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1936 - *** DEFAULT PREP ***</i>										
Blank (B3L1936-BLK1) Continued										
Prepared & Analyzed: 12/13/13										
tert-Butylbenzene	<0.10	0.10	ug/L							
Carbon Disulfide	<0.10	0.10	ug/L							
Carbon Tetrachloride	<0.020	0.020	ug/L							
Chlorobenzene	<0.10	0.10	ug/L							
Chloroethane	<0.10	0.10	ug/L							
Chloroform	<0.10	0.10	ug/L							
Chloromethane	<0.10	0.10	ug/L							
2-Chlorotoluene	<0.10	0.10	ug/L							
4-Chlorotoluene	<0.10	0.10	ug/L							
1,2-Dibromo-3-chloropropane	<0.10	0.10	ug/L							
Dibromochloromethane	<0.10	0.10	ug/L							
1,2-Dibromoethane (EDB)	<0.10	0.10	ug/L							
Dibromomethane	<0.10	0.10	ug/L							
1,3-Dichlorobenzene	<0.10	0.10	ug/L							
1,2-Dichlorobenzene	<0.10	0.10	ug/L							
1,4-Dichlorobenzene	<0.10	0.10	ug/L							
Dichlorodifluoromethane (R12)	<0.10	0.10	ug/L							
1,1-Dichloroethane	<0.10	0.10	ug/L							
1,2-Dichloroethane (EDC)	<0.040	0.040	ug/L							
1,1-Dichloroethylene	<0.10	0.10	ug/L							
cis-1,2-Dichloroethylene	<0.10	0.10	ug/L							
trans-1,2-Dichloroethylene	<0.10	0.10	ug/L							
2,2-Dichloropropane	<0.10	0.10	ug/L							
1,2-Dichloropropane	<0.10	0.10	ug/L							
1,3-Dichloropropane	<0.10	0.10	ug/L							
trans-1,3-Dichloropropylene	<0.10	0.10	ug/L							
cis-1,3-Dichloropropylene	<0.10	0.10	ug/L							
1,1-Dichloropropylene	<0.10	0.10	ug/L							
Diisopropyl ether (DIPE)	<5.0	5.0	ug/L							
Ethylbenzene	<0.10	0.10	ug/L							
Ethyl-tert-Butyl Ether (ETBE)	<5.0	5.0	ug/L							
Gasoline Range Organics (GRO)	<10	10	ug/L							

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1936 - *** DEFAULT PREP ***</i>										
Blank (B3L1936-BLK1) Continued										
Prepared & Analyzed: 12/13/13										
Hexachlorobutadiene	<0.10	0.10	ug/L							
2-Hexanone (MBK)	<1.0	1.0	ug/L							
Isopropylbenzene	<0.10	0.10	ug/L							
4-Isopropyltoluene	<0.10	0.10	ug/L							
Methyl-tert-Butyl Ether (MTBE)	<0.50	0.50	ug/L							
Methylene Chloride	<0.50	0.50	ug/L							
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	ug/L							
Naphthalene	<0.030	0.030	ug/L							
n-Propylbenzene	<0.10	0.10	ug/L							
Styrene	<0.10	0.10	ug/L							
1,1,2,2-Tetrachloroethane	<0.10	0.10	ug/L							
1,1,1,2-Tetrachloroethane	<0.10	0.10	ug/L							
Tetrachloroethylene (PCE)	<0.10	0.10	ug/L							
Toluene	<0.10	0.10	ug/L							
1,2,4-Trichlorobenzene	<0.10	0.10	ug/L							
1,2,3-Trichlorobenzene	<0.10	0.10	ug/L							
1,1,2-Trichloroethane	<0.10	0.10	ug/L							
1,1,1-Trichloroethane	<0.10	0.10	ug/L							
Trichloroethylene (TCE)	<0.10	0.10	ug/L							
Trichlorofluoromethane (R11)	<0.10	0.10	ug/L							
1,2,3-Trichloropropane	<0.10	0.10	ug/L							
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L							
1,3,5-Trimethylbenzene	<0.10	0.10	ug/L							
1,2,4-Trimethylbenzene	<0.10	0.10	ug/L							
Vinyl chloride	<0.010	0.010	ug/L							
o-Xylene	<0.10	0.10	ug/L							
m,p-Xylenes	<0.10	0.10	ug/L							
Isopropanol (IPA)	<1.0	1.0	ug/L							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.7</i>		<i>ug/L</i>	<i>50</i>		<i>91.5</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>56.3</i>		<i>ug/L</i>	<i>50</i>		<i>113</i>	<i>70-130</i>			

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1936 - *** DEFAULT PREP ***</i>										
Blank (B3L1936-BLK1) Continued										
Prepared & Analyzed: 12/13/13										
<i>Surrogate: Toluene-d8</i>	49.6		ug/L	50		99.2	70-130			
LCS (B3L1936-BS1)										
Prepared & Analyzed: 12/13/13										
Acetone	28.5	1.0	ug/L	20		143	75-125		30	AA-C2f
Benzene	22.9	0.030	ug/L	20		115	75-125		30	
Bromobenzene	18.7	0.10	ug/L	20		93.4	75-125		30	
Bromochloromethane	22.1	0.10	ug/L	20		110	75-125		30	
Bromodichloromethane	17.9	0.10	ug/L	20		89.5	75-125		30	
Bromoform	15.1	0.10	ug/L	20		75.5	75-125		30	
Bromomethane	15.2	0.10	ug/L	20		76.0	75-125		30	
2-Butanone (MEK)	21.1	1.0	ug/L	20		106	75-125		30	
n-Butylbenzene	20.8	0.10	ug/L	20		104	75-125		30	
sec-Butylbenzene	21.3	0.10	ug/L	20		106	75-125		30	
tert-Butylbenzene	19.6	0.10	ug/L	20		98.0	75-125		30	
Carbon Disulfide	22.2	0.10	ug/L	20		111	75-125		30	
Carbon Tetrachloride	16.8	0.020	ug/L	20		84.0	75-125		30	
Chlorobenzene	19.0	0.10	ug/L	20		95.1	75-125		30	
Chloroethane	22.8	0.10	ug/L	20		114	75-125		30	
Chloroform	18.2	0.10	ug/L	20		91.0	75-125		30	
Chloromethane	27.0	0.10	ug/L	20		135	75-125		30	AA-C2d
2-Chlorotoluene	19.0	0.10	ug/L	20		94.8	75-125		30	
4-Chlorotoluene	19.3	0.10	ug/L	20		96.3	75-125		30	
1,2-Dibromo-3-chloropropane	18.3	0.10	ug/L	20		91.6	75-125		30	
Dibromochloromethane	15.7	0.10	ug/L	20		78.5	75-125		30	
1,2-Dibromoethane (EDB)	17.3	0.10	ug/L	20		86.5	75-125		30	
Dibromomethane	19.7	0.10	ug/L	20		98.4	75-125		30	
1,3-Dichlorobenzene	19.4	0.10	ug/L	20		97.2	75-125		30	
1,2-Dichlorobenzene	19.2	0.10	ug/L	20		96.0	75-125		30	
1,4-Dichlorobenzene	18.9	0.10	ug/L	20		94.6	75-125		30	
Dichlorodifluoromethane (R12)	13.1	0.10	ug/L	20		65.6	75-125		30	AA-C1
1,1-Dichloroethane	21.9	0.10	ug/L	20		110	75-125		30	
1,2-Dichloroethane (EDC)	14.0	0.040	ug/L	20		70.2	75-125		30	AA-C1
1,1-Dichloroethylene	21.2	0.10	ug/L	20		106	75-125		30	

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1936 - *** DEFAULT PREP ***

LCS (B3L1936-BS1) Continued

Prepared & Analyzed: 12/13/13

cis-1,2-Dichloroethylene	23.2	0.10	ug/L	20		116	75-125		30	
trans-1,2-Dichloroethylene	21.6	0.10	ug/L	20		108	75-125		30	
2,2-Dichloropropane	15.3	0.10	ug/L	20		76.5	75-125		30	
1,2-Dichloropropane	23.2	0.10	ug/L	20		116	75-125		30	
1,3-Dichloropropane	16.6	0.10	ug/L	20		83.0	75-125		30	
trans-1,3-Dichloropropylene	16.3	0.10	ug/L	20		81.5	75-125		30	
cis-1,3-Dichloropropylene	19.6	0.10	ug/L	20		98.0	75-125		30	
1,1-Dichloropropylene	19.2	0.10	ug/L	20		96.0	75-125		30	
Ethylbenzene	16.7	0.10	ug/L	20		83.6	75-125		30	
Hexachlorobutadiene	18.3	0.10	ug/L	20		91.3	75-125		30	
2-Hexanone (MBK)	16.4	1.0	ug/L	20		82.1	75-125		30	
Isopropylbenzene	20.0	0.10	ug/L	20		100	75-125		30	
4-Isopropyltoluene	20.3	0.10	ug/L	20		102	75-125		30	
Methyl-tert-Butyl Ether (MTBE)	16.1	0.50	ug/L	20		80.5	75-125		30	
Methylene Chloride	21.6	0.50	ug/L	20		108	75-125		30	
4-Methyl-2-pentanone (MIBK)	19.1	1.0	ug/L	20		95.4	75-125		30	
Naphthalene	19.1	0.030	ug/L	20		95.4	75-125		30	
n-Propylbenzene	20.7	0.10	ug/L	20		104	75-125		30	
Styrene	19.7	0.10	ug/L	20		98.3	75-125		30	
1,1,2,2-Tetrachloroethane	18.7	0.10	ug/L	20		93.5	75-125		30	
1,1,1,2-Tetrachloroethane	16.8	0.10	ug/L	20		84.2	75-125		30	
Tetrachloroethylene (PCE)	15.8	0.10	ug/L	20		79.2	75-125		30	
Toluene	18.8	0.10	ug/L	20		94.2	75-125		30	
1,2,3-Trichlorobenzene	19.0	0.10	ug/L	20		95.1	75-125		30	
1,1,2-Trichloroethane	18.0	0.10	ug/L	20		90.0	75-125		30	
1,1,1-Trichloroethane	15.8	0.10	ug/L	20		78.8	75-125		30	
Trichloroethylene (TCE)	20.6	0.10	ug/L	20		103	75-125		30	
Trichlorofluoromethane (R11)	15.9	0.10	ug/L	20		79.5	75-125		30	
1,2,3-Trichloropropane	16.3	0.10	ug/L	20		81.5	75-125		30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.8	0.50	ug/L	20		94.1	75-125		30	
1,3,5-Trimethylbenzene	19.7	0.10	ug/L	20		98.7	75-125		30	

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1936 - *** DEFAULT PREP ***

LCS (B3L1936-BS1) Continued

Prepared & Analyzed: 12/13/13

1,2,4-Trimethylbenzene	19.7	0.10	ug/L	20		98.5	75-125		30	
Vinyl chloride	22.9	0.010	ug/L	20		115	75-125		30	
o-Xylene	20.6	0.10	ug/L	20		103	75-125		30	
m,p-Xylenes	40.0	0.10	ug/L	40		100	75-125		30	
Surrogate: 4-Bromofluorobenzene	45.8		ug/L	50		91.6	75-125			
Surrogate: Dibromofluoromethane	54.8		ug/L	50		110	75-125			
Surrogate: Toluene-d8	47.0		ug/L	50		93.9	75-125			

LCS Dup (B3L1936-BSD1)

Prepared & Analyzed: 12/13/13

Acetone	8.84	1.0	ug/L	20		44.2	75-125	105	30	AA-C1
Benzene	24.4	0.030	ug/L	20		122	75-125	6.17	30	
Bromobenzene	20.1	0.10	ug/L	20		100	75-125	7.32	30	
Bromochloromethane	22.8	0.10	ug/L	20		114	75-125	3.29	30	
Bromodichloromethane	19.3	0.10	ug/L	20		96.5	75-125	7.53	30	
Bromoform	16.2	0.10	ug/L	20		81.2	75-125	7.21	30	
Bromomethane	17.7	0.10	ug/L	20		88.5	75-125	15.2	30	
2-Butanone (MEK)	13.5	1.0	ug/L	20		67.5	75-125	43.9	30	AA-C1
n-Butylbenzene	21.8	0.10	ug/L	20		109	75-125	4.51	30	
sec-Butylbenzene	22.6	0.10	ug/L	20		113	75-125	5.70	30	
tert-Butylbenzene	20.8	0.10	ug/L	20		104	75-125	5.70	30	
Carbon Disulfide	21.2	0.10	ug/L	20		106	75-125	4.15	30	
Carbon Tetrachloride	16.5	0.020	ug/L	20		82.6	75-125	1.62	30	
Chlorobenzene	19.8	0.10	ug/L	20		99.2	75-125	4.27	30	
Chloroethane	22.1	0.10	ug/L	20		111	75-125	2.81	30	
Chloroform	18.5	0.10	ug/L	20		92.6	75-125	1.74	30	
Chloromethane	29.7	0.10	ug/L	20		149	75-125	9.71	30	AA-C2a
2-Chlorotoluene	20.2	0.10	ug/L	20		101	75-125	6.38	30	
4-Chlorotoluene	19.9	0.10	ug/L	20		99.4	75-125	3.22	30	
1,2-Dibromo-3-chloropropane	19.3	0.10	ug/L	20		96.3	75-125	5.00	30	
Dibromochloromethane	16.2	0.10	ug/L	20		81.0	75-125	3.13	30	
1,2-Dibromoethane (EDB)	19.1	0.10	ug/L	20		95.4	75-125	9.73	30	
Dibromomethane	22.2	0.10	ug/L	20		111	75-125	12.0	30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1936 - *** DEFAULT PREP ***</i>										
LCS Dup (B3L1936-BSD1) Continued										
Prepared & Analyzed: 12/13/13										
1,3-Dichlorobenzene	21.7	0.10	ug/L	20		108	75-125	11.0	30	
1,2-Dichlorobenzene	21.0	0.10	ug/L	20		105	75-125	9.01	30	
1,4-Dichlorobenzene	20.0	0.10	ug/L	20		100	75-125	5.50	30	
Dichlorodifluoromethane (R12)	12.9	0.10	ug/L	20		64.5	75-125	1.61	30	AA-C1
1,1-Dichloroethane	21.4	0.10	ug/L	20		107	75-125	2.31	30	
1,2-Dichloroethane (EDC)	14.4	0.040	ug/L	20		72.0	75-125	2.53	30	AA-C1
1,1-Dichloroethylene	21.1	0.10	ug/L	20		106	75-125	0.567	30	
cis-1,2-Dichloroethylene	23.5	0.10	ug/L	20		118	75-125	1.28	30	
trans-1,2-Dichloroethylene	21.4	0.10	ug/L	20		107	75-125	0.930	30	
2,2-Dichloropropane	15.1	0.10	ug/L	20		75.5	75-125	1.32	30	
1,2-Dichloropropane	26.0	0.10	ug/L	20		130	75-125	11.3	30	AA-C2a
1,3-Dichloropropane	18.6	0.10	ug/L	20		93.0	75-125	11.4	30	
trans-1,3-Dichloropropylene	16.5	0.10	ug/L	20		82.5	75-125	1.22	30	
cis-1,3-Dichloropropylene	21.3	0.10	ug/L	20		107	75-125	8.41	30	
1,1-Dichloropropylene	19.9	0.10	ug/L	20		99.4	75-125	3.38	30	
Ethylbenzene	18.3	0.10	ug/L	20		91.6	75-125	9.13	30	
Hexachlorobutadiene	18.2	0.10	ug/L	20		91.0	75-125	0.329	30	
2-Hexanone (MBK)	12.2	1.0	ug/L	20		61.0	75-125	29.5	30	AA-C1
Isopropylbenzene	21.1	0.10	ug/L	20		106	75-125	5.29	30	
4-Isopropyltoluene	21.4	0.10	ug/L	20		107	75-125	5.42	30	
Methyl-tert-Butyl Ether (MTBE)	17.2	0.50	ug/L	20		86.2	75-125	6.84	30	
Methylene Chloride	21.6	0.50	ug/L	20		108	75-125	0.185	30	
4-Methyl-2-pentanone (MIBK)	23.3	1.0	ug/L	20		117	75-125	20.0	30	
Naphthalene	27.2	0.030	ug/L	20		136	75-125	35.2	30	AA-C2c
n-Propylbenzene	21.8	0.10	ug/L	20		109	75-125	5.27	30	
Styrene	20.0	0.10	ug/L	20		100	75-125	1.71	30	
1,1,2,2-Tetrachloroethane	20.9	0.10	ug/L	20		104	75-125	10.9	30	
1,1,1,2-Tetrachloroethane	17.1	0.10	ug/L	20		85.7	75-125	1.77	30	
Tetrachloroethylene (PCE)	15.6	0.10	ug/L	20		78.0	75-125	1.59	30	
Toluene	19.1	0.10	ug/L	20		95.5	75-125	1.37	30	
1,2,3-Trichlorobenzene	21.4	0.10	ug/L	20		107	75-125	11.9	30	
1,1,2-Trichloroethane	20.3	0.10	ug/L	20		102	75-125	12.0	30	

Eydie Schwartz

Eydie Schwartz
 Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1936 - *** DEFAULT PREP ***</i>										
LCS Dup (B3L1936-BSD1) Continued										
Prepared & Analyzed: 12/13/13										
1,1,1-Trichloroethane	15.9	0.10	ug/L	20		79.6	75-125	0.947	30	
Trichloroethylene (TCE)	21.6	0.10	ug/L	20		108	75-125	4.92	30	
Trichlorofluoromethane (R11)	15.4	0.10	ug/L	20		77.0	75-125	3.19	30	
1,2,3-Trichloropropane	18.3	0.10	ug/L	20		91.4	75-125	11.4	30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	18.1	0.50	ug/L	20		90.5	75-125	3.90	30	
1,3,5-Trimethylbenzene	20.9	0.10	ug/L	20		105	75-125	5.85	30	
1,2,4-Trimethylbenzene	21.0	0.10	ug/L	20		105	75-125	6.58	30	
Vinyl chloride	23.0	0.010	ug/L	20		115	75-125	0.262	30	
o-Xylene	20.4	0.10	ug/L	20		102	75-125	1.12	30	
m,p-Xylenes	40.7	0.10	ug/L	40		102	75-125	1.83	30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>47.1</i>		<i>ug/L</i>	<i>50</i>		<i>94.2</i>	<i>75-125</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>53.9</i>		<i>ug/L</i>	<i>50</i>		<i>108</i>	<i>75-125</i>			
<i>Surrogate: Toluene-d8</i>	<i>45.7</i>		<i>ug/L</i>	<i>50</i>		<i>91.4</i>	<i>75-125</i>			
Duplicate (B3L1936-DUP1)										
Source: 3L19003-38 Prepared & Analyzed: 12/13/13										
Acetone	<1.0	1.0	ug/L			<1.0			30	
tert-Amyl Methyl Ether (TAME)	<5.0	5.0	ug/L			<5.0			30	
Benzene	<0.030	0.030	ug/L			<0.030			30	
Bromobenzene	<0.10	0.10	ug/L			<0.10			30	
Bromochloromethane	<0.10	0.10	ug/L			<0.10			30	
Bromodichloromethane	<0.10	0.10	ug/L			<0.10			30	
Bromoform	<0.10	0.10	ug/L			<0.10			30	
Bromomethane	<0.10	0.10	ug/L			<0.10			30	
2-Butanone (MEK)	<1.0	1.0	ug/L			<1.0			30	
tert-Butyl alcohol (TBA)	<20	20	ug/L			<20			30	
n-Butylbenzene	<0.10	0.10	ug/L			<0.10			30	
sec-Butylbenzene	<0.10	0.10	ug/L			<0.10			30	
tert-Butylbenzene	<0.10	0.10	ug/L			<0.10			30	
Carbon Disulfide	<0.10	0.10	ug/L			<0.10			30	
Carbon Tetrachloride	<0.020	0.020	ug/L			<0.020			30	
Chlorobenzene	<0.10	0.10	ug/L			<0.10			30	

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Table with 11 columns: Analyte, Result, Reporting Limit, Units, Spike Level, Source Result, %REC, %REC Limits, RPD, RPD Limit, Notes

VOCs in Vapor by GC/MS - Field - Quality Control

Batch B3L1936 - *** DEFAULT PREP ***

Duplicate (B3L1936-DUP1) Continued Source: 3L19003-38 Prepared & Analyzed: 12/13/13

Main data table listing various VOCs (Chloroethane, Chloroform, Chloromethane, etc.) with their respective results, reporting limits, and RPD values.

Eydie Schwartz (handwritten signature)

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
VOCs in Vapor by GC/MS - Field - Quality Control										
<i>Batch B3L1936 - *** DEFAULT PREP ***</i>										
Duplicate (B3L1936-DUP1) Continued Source: 3L19003-38 Prepared & Analyzed: 12/13/13										
Methyl-tert-Butyl Ether (MTBE)	<0.50	0.50	ug/L		<0.50				30	
Methylene Chloride	<0.50	0.50	ug/L		<0.50				30	
4-Methyl-2-pentanone (MIBK)	<1.0	1.0	ug/L		<1.0				30	
Naphthalene	<0.030	0.030	ug/L		<0.030				30	
n-Propylbenzene	<0.10	0.10	ug/L		<0.10				30	
Styrene	<0.10	0.10	ug/L		<0.10				30	
1,1,2,2-Tetrachloroethane	<0.10	0.10	ug/L		<0.10				30	
1,1,1,2-Tetrachloroethane	<0.10	0.10	ug/L		<0.10				30	
Tetrachloroethylene (PCE)	<0.10	0.10	ug/L		<0.10				30	
Toluene	<0.10	0.10	ug/L		<0.10				30	
1,2,4-Trichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
1,2,3-Trichlorobenzene	<0.10	0.10	ug/L		<0.10				30	
1,1,2-Trichloroethane	<0.10	0.10	ug/L		<0.10				30	
1,1,1-Trichloroethane	<0.10	0.10	ug/L		<0.10				30	
Trichloroethylene (TCE)	<0.10	0.10	ug/L		<0.10				30	
Trichlorofluoromethane (R11)	<0.10	0.10	ug/L		<0.10				30	
1,2,3-Trichloropropane	<0.10	0.10	ug/L		<0.10				30	
1,1,2-Trichloro-1,2,2-trifluoroethane (R113)	<0.50	0.50	ug/L		<0.50				30	
1,3,5-Trimethylbenzene	<0.10	0.10	ug/L		<0.10				30	
1,2,4-Trimethylbenzene	<0.10	0.10	ug/L		<0.10				30	
Vinyl chloride	<0.010	0.010	ug/L		<0.010				30	
o-Xylene	<0.10	0.10	ug/L		<0.10				30	
m,p-Xylenes	<0.10	0.10	ug/L		<0.10				30	
Isopropanol (IPA)	<1.0	1.0	ug/L		<1.0				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>45.2</i>		<i>ug/L</i>	<i>50</i>		<i>90.4</i>	<i>70-130</i>			
<i>Surrogate: Dibromofluoromethane</i>	<i>57.5</i>		<i>ug/L</i>	<i>50</i>		<i>115</i>	<i>70-130</i>			
<i>Surrogate: Toluene-d8</i>	<i>48.0</i>		<i>ug/L</i>	<i>50</i>		<i>96.1</i>	<i>70-130</i>			

Eydie Schwartz

Eydie Schwartz
Project Manager



LABORATORY ANALYSIS RESULTS

Client: InterPhase Environmental, Inc.
Project No: NA
Project Name: Soil Gas Investigation - Irvine

AA Project No: MB53967
Date Received: 12/19/2013
Date Reported: 12/23/13

Special Notes

- [1] = AA-C1 : a
- [2] = AA-C1 : s
- [3] = AA-C1 : The percent recovery for this analyte exceeds acceptance criteria.
- [4] = AA-C1 : The percent recovery for this analyte is below acceptance criteria.
- [5] = AA-C1 : x
- [6] = AA-C1 : z
- [7] = AA-C2 : a
- [8] = AA-C2 : a
- [9] = AA-C2 : c
- [10] = AA-C2 : d
- [11] = AA-C2 : s
- [12] = AA-C2 : The percent recovery for this analyte exceeds acceptance criteria.
- [13] = AA-C2 : x
- [14] = AA-C3 : The RPD value exceeds acceptance criteria.
- [15] = QR-02 : The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

Eydie Schwartz

Eydie Schwartz
Project Manager



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

AA. COC No.: 118782

70036320

Page 1 of 1

Client: Interphase Project Name / No.: SG I - Irvine Sampler's Name: Allen Aminion

Project Manager: Mike Watson (FRC) Site Address: 800 Irvine Blvd Sampler's Signature: [Signature]

Phone: _____ City: Irvine P.O. No.: _____

Fax: _____ State & Zip: CA Quote No.: _____

- TAT Turnaround Codes **
- ① = Same Day Rush
 - ② = 24 Hour Rush
 - ③ = 48 Hour Rush
 - ④ = 72 Hour Rush
 - ⑤ = 5 Day Rush
 - X = 10 Working Days (Standard TAT)

Client I.D.	AA. I.D.	Date	Time	Sample Matrix	No. of Cont	Relinquished by	Date	Time	Received by
Ambient Air	3L19003-01	12/11/13	8:45	V	2	X			
SG-2-5' PV3			9:25	V	3	X			
SG-2-5' PV3			9:40	V	3	X			
SG-2-5' PV10			10:39	V	3	X			
SG-2-5' PV3			10:50	V	3	X			
SG-5-5' PV3			11:35	V	3	X			
SG-2-15' PV10			12:25	V	3	X			
SG-5-5' PV3			12:50	V	3	X			
SG-6-5' PV3			13:25	V	3	X			
SG-6-5' PV3			13:42	V	3	X			
SG-7-5' PV3			14:25	V	3	X			
SG-7-15' PV3			14:45	V	3	X			
SG-8-5' PV3			15:17	V	3	X			
SG-8-15' PV3			15:40	V	3	X			
SG-8-15' Pop			15:40	V	3	X			

8260 B + 10 + 60 Methane

ANALYSIS REQUESTED (Test Name)

Special Instructions

REVIEWED

Date: 12/11/13 Time: 09:39

TAT Days: Sign: [Signature]

AA. Project No.: 118535167 / 3L19003

Note: By relinquishing samples to American Analyticals, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be dispersed after 45 days following the shipment of the sample(s) to American Analyticals.



AMERICAN ANALYTICS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

AA COC No.: 115783

7 0038045

Page 1 of 4

Client: InterPhase Project Name / No.: SGI - Irvine Sampler's Name: Allen Amington

Project Manager: Mike Watson (TRC) Site Address: 801 Irvine Blvd Sampler's Signature: [Signature]

Phone: _____ City: Irvine P.O. No.: _____

Fax: _____ State & Zip: CA Quote No.: _____

- TAT Turnaround Codes **
- ① = Same Day Rush
 - ② = 24 Hour Rush
 - ③ = 48 Hour Rush
 - ④ = 72 Hour Rush
 - ⑤ = 5 Day Rush
 - X = 10 Working Days (Standard TAT)

Client I.D.	AA I.D.	Date	Time	Sample Matrix	No. of Cont	Relinquished by	Date	Time	Received by
Ambient Air	219003-16	12/21/13			2				
SG-9-5' PV3			10:00		3				
SG-9-15' PV3			10:30		3				
SG-10-5' PV3			10:55		3				
SG-10-15' PV3			11:25		3				Return 8260
SG-4-5' PV3			11:50		3				
SG-4-15' PV3			12:30		3				
SG-3-5' PV3			13:00		3				
SG-3-15' PV3			13:20		3				
SG-1-5' PV3			13:49		3				
SG-1-15' PV3			14:08		3				
SG-11-5' PV3			14:45		3				
SG-11-5 Dup PV3			15:30		3				
SG-11-15' PV3			15:30		3				
SG-11-15' Dup PV3			15:30		3				

8250 B+Gas Methane

Special Instructions

For Laboratory Use

REVISED

Date: 12/11/13 Time: 06:39

TAT in Days: 30

Signature: [Signature]

Note: By relinquishing samples to American Analytix, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analytix.



AMERICAN ANALYTICALS CHAIN-OF-CUSTODY RECORD

9765 ETON AVE., CHATSWORTH, CA 91311

Tel: 818-998-5547 FAX: 818-998-7258

A.A. COC No.: 115785

70038047

Page 1 of 1

Client: Interphase

Project Name/No.: SGI-Interphase

Sampler's Name: Allen Amador

Project Manager: Mike Watson (TFC)

Site Address: 8001 Irvine Blvd

Sampler's Signature: [Signature]

Phone: _____ City: Irvine

P.O. No.: _____

Fax: _____ State & Zip: CA

Quote No.: _____

TAT Turnaround Codes **

- ① = Same Day Rush
- ② = 24 Hour Rush
- ③ = 48 Hour Rush
- ④ = 72 Hour Rush
- ⑤ = 5 Day Rush
- X = 10 Working Days (Standard TAT)

ANALYSIS REQUESTED (Test Name)

8260 B+B + 88 Methane

Special Instructions

Client I.D.	A.A. I.D.	Date	Time	Sample Matrix	No. of Cont	Relinquished by	Date	Time	Received by
Ambio A-AY	219003-36	12/13/13	11:40	N	2	X			
SG-14-51 PUV3			8:20	u	3	X			
SG-14-151 PUV3			8:40	u	3	X			
SG-14-15 bar PUV3				u	3	X			
SG-14-401 PUV3			9:40	u	1	X			
SG-16-51 PUV3			10:22	u	3	X			
SG-16-151 PUV3			10:43	u	3	X			
SG-16-401 PUV3			10:57	u	1	X			
SG-15-51 PUV3			11:15	u	3	X			
SG-15-151 PUV3			11:38	u	3	X			
SG-15-401 PUV3			11:56	u	1	X			
SG-13-51 PUV3			12:16	u	1	X			
SG-13-151 PUV3			12:32	u	1	X			
SG-13-401 PUV3			12:49	u	1	X			
SG-10-151 PUV3			10:00	u	1	X			

For Laboratory Use

RECEIVED

Date: 12/13/13 Time: 09:34

TAT N Days sign: E. Edwards

A.A. Project No.: MBS3967 / 319003

Relinquished by: [Signature]

Date: 12/13/13

Time: 1300

Received by: [Signature]

Relinquished by:

Date:

Time:

Received by:

Note: By relinquishing samples to American Analyticals, client agrees to pay for the services requested on this chain of custody form and any additional client-requested analyses performed on this project. Payment for services is due within 30 days from the date of invoice. Sample(s) will be disposed of after 45 days following the submittal of the sample(s) to American Analyticals.