

Report Date:
11-Sep-06 11:39



- ☒ Final Report
☐ Re-Issued Report
☐ Revised Report

SPECTRUM ANALYTICAL, INC.

Featuring

HANIBAL TECHNOLOGY

Laboratory Report

Jacques Whitford Company, Inc.
27 Congress Street; P.O. Box 4696
Portsmouth, NH 03802
Attn: Bob Nicoloro

Project: Smith Residence-Meddybemps, ME
Project 1016545 Phase 908

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Container</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SA50126-01	AA1	Summa canister	Air	23-Aug-06 11:44	25-Aug-06 09:12
SA50126-02	IA1	Summa canister	Air	23-Aug-06 11:48	25-Aug-06 09:12
SA50126-03	Dup	Summa canister	Air	23-Aug-06 12:10	25-Aug-06 09:12
SA50126-04	IA2	Summa canister	Air	23-Aug-06 12:04	25-Aug-06 09:12

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.

All applicable NELAC requirements have been met.

Please note that this report contains 14 pages of analytical data plus Chain of Custody document(s).

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Massachusetts Certification # M-MA138/MA1110

Connecticut # PH-0777

Florida # E87600/E87936

Maine # MA138

New Hampshire # 2538/2972

New Jersey # MA011/MA012

New York # 11393/11840

Rhode Island # 98

USDA # S-51435

Vermont # VT-11393



Authorized by:

Hanibal C. Tayeh, Ph.D.
President/Laboratory Director

Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Spectrum is currently accredited for the specific method indicated. Please refer to our "Quality" webpage at www.spectrum-analytical.com for a full listing of our current certifications.

Sample Identification

AA1

SA50126-01

Client Project #
1016545 Phase 908Matrix
AirCollection Date/Time
23-Aug-06 11:44Received
25-Aug-06

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result Units</i>	<i>*RDL</i>	<i>Result ug/m³</i>	<i>*RDL</i>	<i>Flag</i>	<i>Method Ref.</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Air Quality Analyses										
<u>EPA TO-15</u>		<u>ppbv</u>								
115-07-1	Propene	BRL	0.500	BRL	0.9		EPA TO-15	31-Aug-06	6082405	WB
75-71-8	Dichlorodifluoromethane (Freon12)	BRL	0.500	BRL	2.5		"	"	"	"
74-87-3	Chloromethane	BRL	0.500	BRL	1.0		"	"	"	"
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	BRL	0.500	BRL	3.5		"	"	"	"
75-01-4	Vinyl chloride	BRL	0.500	BRL	1.3		"	"	"	"
106-99-0	1,3-Butadiene	BRL	0.500	BRL	1.1		"	"	"	"
74-83-9	Bromomethane	BRL	0.500	BRL	1.9		"	"	"	"
75-00-3	Chloroethane	BRL	0.500	BRL	1.3		"	"	"	"
67-64-1	Acetone	9.24	0.500	22.0	1.2		"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	BRL	0.500	BRL	2.8		"	"	"	"
64-17-5	Ethanol	1.51	0.500	2.9	0.9		"	"	"	"
75-35-4	1,1-Dichloroethene	BRL	0.500	BRL	2.0		"	"	"	"
75-09-2	Methylene chloride	BRL	0.500	BRL	1.7		"	"	"	"
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	0.500	BRL	3.8		"	"	"	"
75-15-0	Carbon disulfide	BRL	0.500	BRL	1.6		"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL	0.500	BRL	2.0		"	"	"	"
75-34-3	1,1-Dichloroethane	BRL	0.500	BRL	2.0		"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL	0.500	BRL	1.8		"	"	"	"
67-63-0	Isopropyl alcohol	0.690	0.500	1.7	1.2		"	"	"	"
78-93-3	2-Butanone (MEK)	BRL	0.500	BRL	1.5		"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL	0.500	BRL	2.0		"	"	"	"
110-54-3	Hexane	BRL	0.500	BRL	1.8		"	"	"	"
141-78-6	Ethyl acetate	BRL	0.500	BRL	1.8		"	"	"	"
67-66-3	Chloroform	BRL	0.500	BRL	2.4		"	"	"	"
109-99-9	Tetrahydrofuran	BRL	0.500	BRL	1.5		"	"	"	"
107-06-2	1,2-Dichloroethane	BRL	0.500	BRL	2.0		"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL	0.500	BRL	2.7		"	"	"	"
71-43-2	Benzene	BRL	0.500	BRL	1.6		"	"	"	"
56-23-5	Carbon tetrachloride	BRL	0.500	BRL	3.2		"	"	"	"
110-82-7	Cyclohexane	BRL	0.500	BRL	1.7		"	"	"	"
78-87-5	1,2-Dichloropropane	BRL	0.500	BRL	2.3		"	"	"	"
75-27-4	Bromodichloromethane	BRL	0.500	BRL	3.4		"	"	"	"
79-01-6	Trichloroethene	BRL	0.500	BRL	2.7		"	"	"	"
142-82-5	n-Heptane	BRL	0.500	BRL	2.1		"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL	0.500	BRL	2.1		"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL	0.500	BRL	2.3		"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL	0.500	BRL	2.3		"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL	0.500	BRL	2.7		"	"	"	"
108-88-3	Toluene	BRL	0.500	BRL	1.9		"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL	0.500	BRL	2.1		"	"	"	"
124-48-1	Dibromochloromethane	BRL	0.500	BRL	4.3		"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL	0.500	BRL	3.8		"	"	"	"
127-18-4	Tetrachloroethene	BRL	0.500	BRL	3.4		"	"	"	"
108-90-7	Chlorobenzene	BRL	0.500	BRL	2.3		"	"	"	"
100-41-4	Ethylbenzene	BRL	0.500	BRL	2.2		"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 2 of 14

Sample Identification

AA1

SA50126-01

Client Project #
1016545 Phase 908

Matrix
Air

Collection Date/Time
23-Aug-06 11:44

Received
25-Aug-06

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result Units</i>	<i>*RDL</i>	<i>Result ug/m³</i>	<i>*RDL</i>	<i>Flag</i>	<i>Method Ref.</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Air Quality Analyses										
<u>EPA TO-15</u>		<u>ppbv</u>								
1330-20-7	m,p-Xylene	BRL	0.500	BRL	2.2		EPA TO-15	31-Aug-06	6082405	WB
75-25-2	Bromoform	BRL	0.500	BRL	5.2		"	"	"	"
100-42-5	Styrene	BRL	0.500	BRL	2.1		"	"	"	"
95-47-6	o-Xylene	BRL	0.500	BRL	2.2		"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL	0.500	BRL	3.4		"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL	0.500	BRL	2.5		"	"	"	"
622-96-8	4-Ethyltoluene	BRL	0.500	BRL	2.5		"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL	0.500	BRL	2.5		"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL	0.500	BRL	3.0		"	"	"	"
100-44-7	Benzyl chloride	BRL	0.500	BRL	2.6		"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL	0.500	BRL	3.0		"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL	0.500	BRL	3.0		"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL	0.500	BRL	3.7		"	"	"	"
87-68-3	Hexachlorobutadiene	BRL	0.500	BRL	5.3		"	"	"	"
Surrogate recoveries:										
460-00-4	4-Bromofluorobenzene	93.6		75-125 %			"	"	"	"

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Page 3 of 14

Sample Identification

IA1

SA50126-02

Client Project #
1016545 Phase 908Matrix
AirCollection Date/Time
23-Aug-06 11:48Received
25-Aug-06

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result Units</i>	<i>*RDL</i>	<i>Result ug/m³</i>	<i>*RDL</i>	<i>Flag</i>	<i>Method Ref.</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Air Quality Analyses										
<u>EPA TO-15</u>		<u>ppbv</u>								
115-07-1	Propene	BRL	1.00	BRL	1.7		EPA TO-15	31-Aug-06	6082405	WB
75-71-8	Dichlorodifluoromethane (Freon12)	BRL	1.00	BRL	4.9		"	"	"	"
74-87-3	Chloromethane	BRL	1.00	BRL	2.1		"	"	"	"
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	BRL	1.00	BRL	7.0		"	"	"	"
75-01-4	Vinyl chloride	BRL	1.00	BRL	2.6		"	"	"	"
106-99-0	1,3-Butadiene	BRL	1.00	BRL	2.2		"	"	"	"
74-83-9	Bromomethane	BRL	1.00	BRL	3.9		"	"	"	"
75-00-3	Chloroethane	BRL	1.00	BRL	2.6		"	"	"	"
67-64-1	Acetone	2.56	1.00	6.1	2.4		"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	1.16	1.00	6.5	5.6		"	"	"	"
64-17-5	Ethanol	1.84	1.00	3.5	1.9		"	"	"	"
75-35-4	1,1-Dichloroethene	BRL	1.00	BRL	4.0		"	"	"	"
75-09-2	Methylene chloride	1.56	1.00	5.4	3.5		"	"	"	"
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	1.00	BRL	7.7		"	"	"	"
75-15-0	Carbon disulfide	BRL	1.00	BRL	3.1		"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL	1.00	BRL	4.0		"	"	"	"
75-34-3	1,1-Dichloroethane	BRL	1.00	BRL	4.1		"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL	1.00	BRL	3.6		"	"	"	"
67-63-0	Isopropyl alcohol	BRL	1.00	BRL	2.5		"	"	"	"
78-93-3	2-Butanone (MEK)	BRL	1.00	BRL	3.0		"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL	1.00	BRL	4.0		"	"	"	"
110-54-3	Hexane	BRL	1.00	BRL	3.5		"	"	"	"
141-78-6	Ethyl acetate	BRL	1.00	BRL	3.6		"	"	"	"
67-66-3	Chloroform	BRL	1.00	BRL	4.9		"	"	"	"
109-99-9	Tetrahydrofuran	BRL	1.00	BRL	3.0		"	"	"	"
107-06-2	1,2-Dichloroethane	BRL	1.00	BRL	4.1		"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL	1.00	BRL	5.5		"	"	"	"
71-43-2	Benzene	BRL	1.00	BRL	3.2		"	"	"	"
56-23-5	Carbon tetrachloride	BRL	1.00	BRL	6.3		"	"	"	"
110-82-7	Cyclohexane	BRL	1.00	BRL	3.4		"	"	"	"
78-87-5	1,2-Dichloropropane	BRL	1.00	BRL	4.6		"	"	"	"
75-27-4	Bromodichloromethane	BRL	1.00	BRL	6.7		"	"	"	"
79-01-6	Trichloroethene	BRL	1.00	BRL	5.4		"	"	"	"
142-82-5	n-Heptane	BRL	1.00	BRL	4.1		"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL	1.00	BRL	4.1		"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL	1.00	BRL	4.5		"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL	1.00	BRL	4.5		"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL	1.00	BRL	5.5		"	"	"	"
108-88-3	Toluene	BRL	1.00	BRL	3.8		"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL	1.00	BRL	4.1		"	"	"	"
124-48-1	Dibromochloromethane	BRL	1.00	BRL	8.5		"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL	1.00	BRL	7.7		"	"	"	"
127-18-4	Tetrachloroethene	155	1.00	1050.0	6.8		"	"	"	"
108-90-7	Chlorobenzene	BRL	1.00	BRL	4.6		"	"	"	"
100-41-4	Ethylbenzene	BRL	1.00	BRL	4.3		"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 4 of 14

Sample Identification

IA1

SA50126-02

Client Project #
1016545 Phase 908Matrix
AirCollection Date/Time
23-Aug-06 11:48Received
25-Aug-06

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result Units</i>	<i>*RDL</i>	<i>Result ug/m³</i>	<i>*RDL</i>	<i>Flag</i>	<i>Method Ref.</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Air Quality Analyses										
<u>EPA TO-15</u>		<u>ppbv</u>								
1330-20-7	m,p-Xylene	BRL	1.00	BRL	4.3		EPA TO-15	31-Aug-06	6082405	WB
75-25-2	Bromoform	BRL	1.00	BRL	10.3		"	"	"	"
100-42-5	Styrene	BRL	1.00	BRL	4.3		"	"	"	"
95-47-6	o-Xylene	BRL	1.00	BRL	4.3		"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL	1.00	BRL	6.9		"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL	1.00	BRL	4.9		"	"	"	"
622-96-8	4-Ethyltoluene	BRL	1.00	BRL	4.9		"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL	1.00	BRL	4.9		"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL	1.00	BRL	6.0		"	"	"	"
100-44-7	Benzyl chloride	BRL	1.00	BRL	5.2		"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL	1.00	BRL	6.0		"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL	1.00	BRL	6.0		"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL	1.00	BRL	7.4		"	"	"	"
87-68-3	Hexachlorobutadiene	BRL	1.00	BRL	10.7		"	"	"	"
Surrogate recoveries:										
460-00-4	4-Bromofluorobenzene	94.4		75-125 %			"	"	"	"

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BRL = Below Reporting Limit

Page 5 of 14

Sample Identification

Dup

SA50126-03

Client Project #
1016545 Phase 908Matrix
AirCollection Date/Time
23-Aug-06 12:10Received
25-Aug-06

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result Units</i>	<i>*RDL</i>	<i>Result ug/m³</i>	<i>*RDL</i>	<i>Flag</i>	<i>Method Ref.</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Air Quality Analyses										
<u>EPA TO-15</u>		<u>ppbv</u>								
115-07-1	Propene	BRL	1.00	BRL	1.7		EPA TO-15	31-Aug-06	6082405	WB
75-71-8	Dichlorodifluoromethane (Freon12)	BRL	1.00	BRL	4.9		"	"	"	"
74-87-3	Chloromethane	BRL	1.00	BRL	2.1		"	"	"	"
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	BRL	1.00	BRL	7.0		"	"	"	"
75-01-4	Vinyl chloride	BRL	1.00	BRL	2.6		"	"	"	"
106-99-0	1,3-Butadiene	BRL	1.00	BRL	2.2		"	"	"	"
74-83-9	Bromomethane	BRL	1.00	BRL	3.9		"	"	"	"
75-00-3	Chloroethane	BRL	1.00	BRL	2.6		"	"	"	"
67-64-1	Acetone	4.96	1.00	11.8	2.4		"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	1.70	1.00	9.6	5.6		"	"	"	"
64-17-5	Ethanol	3.10	1.00	5.8	1.9		"	"	"	"
75-35-4	1,1-Dichloroethene	BRL	1.00	BRL	4.0		"	"	"	"
75-09-2	Methylene chloride	2.60	1.00	9.0	3.5		"	"	"	"
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	1.00	BRL	7.7		"	"	"	"
75-15-0	Carbon disulfide	BRL	1.00	BRL	3.1		"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL	1.00	BRL	4.0		"	"	"	"
75-34-3	1,1-Dichloroethane	BRL	1.00	BRL	4.1		"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL	1.00	BRL	3.6		"	"	"	"
67-63-0	Isopropyl alcohol	1.10	1.00	2.7	2.5		"	"	"	"
78-93-3	2-Butanone (MEK)	BRL	1.00	BRL	3.0		"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL	1.00	BRL	4.0		"	"	"	"
110-54-3	Hexane	BRL	1.00	BRL	3.5		"	"	"	"
141-78-6	Ethyl acetate	BRL	1.00	BRL	3.6		"	"	"	"
67-66-3	Chloroform	BRL	1.00	BRL	4.9		"	"	"	"
109-99-9	Tetrahydrofuran	BRL	1.00	BRL	3.0		"	"	"	"
107-06-2	1,2-Dichloroethane	BRL	1.00	BRL	4.1		"	"	"	"
71-55-6	1,1,1-Trichloroethane	BRL	1.00	BRL	5.5		"	"	"	"
71-43-2	Benzene	BRL	1.00	BRL	3.2		"	"	"	"
56-23-5	Carbon tetrachloride	BRL	1.00	BRL	6.3		"	"	"	"
110-82-7	Cyclohexane	BRL	1.00	BRL	3.4		"	"	"	"
78-87-5	1,2-Dichloropropane	BRL	1.00	BRL	4.6		"	"	"	"
75-27-4	Bromodichloromethane	BRL	1.00	BRL	6.7		"	"	"	"
79-01-6	Trichloroethene	BRL	1.00	BRL	5.4		"	"	"	"
142-82-5	n-Heptane	BRL	1.00	BRL	4.1		"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL	1.00	BRL	4.1		"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL	1.00	BRL	4.5		"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL	1.00	BRL	4.5		"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL	1.00	BRL	5.5		"	"	"	"
108-88-3	Toluene	1.16	1.00	4.4	3.8		"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL	1.00	BRL	4.1		"	"	"	"
124-48-1	Dibromochloromethane	BRL	1.00	BRL	8.5		"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL	1.00	BRL	7.7		"	"	"	"
127-18-4	Tetrachloroethene	126	1.00	854.0	6.8		"	"	"	"
108-90-7	Chlorobenzene	BRL	1.00	BRL	4.6		"	"	"	"
100-41-4	Ethylbenzene	BRL	1.00	BRL	4.3		"	"	"	"

This laboratory report is not valid without an authorized signature on the cover page.

* Reportable Detection Limit

BRL = Below Reporting Limit

Page 6 of 14

Sample Identification

Dup

SA50126-03

Client Project #
1016545 Phase 908Matrix
AirCollection Date/Time
23-Aug-06 12:10Received
25-Aug-06

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result Units</i>	<i>*RDL</i>	<i>Result ug/m³</i>	<i>*RDL</i>	<i>Flag</i>	<i>Method Ref.</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Air Quality Analyses										
<u>EPA TO-15</u>		<u>ppbv</u>								
1330-20-7	m,p-Xylene	BRL	1.00	BRL	4.3		EPA TO-15	31-Aug-06	6082405	WB
75-25-2	Bromoform	BRL	1.00	BRL	10.3		"	"	"	"
100-42-5	Styrene	BRL	1.00	BRL	4.3		"	"	"	"
95-47-6	o-Xylene	BRL	1.00	BRL	4.3		"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL	1.00	BRL	6.9		"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL	1.00	BRL	4.9		"	"	"	"
622-96-8	4-Ethyltoluene	BRL	1.00	BRL	4.9		"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	BRL	1.00	BRL	4.9		"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL	1.00	BRL	6.0		"	"	"	"
100-44-7	Benzyl chloride	BRL	1.00	BRL	5.2		"	"	"	"
106-46-7	1,4-Dichlorobenzene	BRL	1.00	BRL	6.0		"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL	1.00	BRL	6.0		"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL	1.00	BRL	7.4		"	"	"	"
87-68-3	Hexachlorobutadiene	BRL	1.00	BRL	10.7		"	"	"	"
Surrogate recoveries:										
460-00-4	4-Bromofluorobenzene	95.2		75-125 %			"	"	"	"

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 7 of 14

Sample Identification

IA2

SA50126-04

Client Project #
1016545 Phase 908Matrix
AirCollection Date/Time
23-Aug-06 12:04Received
25-Aug-06

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result Units</i>	<i>*RDL</i>	<i>Result ug/m³</i>	<i>*RDL</i>	<i>Flag</i>	<i>Method Ref.</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Air Quality Analyses										
<u>EPA TO-15</u>		<u>ppbv</u>								
115-07-1	Propene	BRL	0.500	BRL	0.9		EPA TO-15	31-Aug-06	6082405	WB
75-71-8	Dichlorodifluoromethane (Freon12)	0.980	0.500	4.9	2.5		"	"	"	"
74-87-3	Chloromethane	BRL	0.500	BRL	1.0		"	"	"	"
76-14-2	1,2-Dichlorotetrafluoroethane (Freon 114)	BRL	0.500	BRL	3.5		"	"	"	"
75-01-4	Vinyl chloride	BRL	0.500	BRL	1.3		"	"	"	"
106-99-0	1,3-Butadiene	BRL	0.500	BRL	1.1		"	"	"	"
74-83-9	Bromomethane	BRL	0.500	BRL	1.9		"	"	"	"
75-00-3	Chloroethane	BRL	0.500	BRL	1.3		"	"	"	"
67-64-1	Acetone	12.9	0.500	30.7	1.2		"	"	"	"
75-69-4	Trichlorofluoromethane (Freon 11)	11.7	0.500	65.7	2.8		"	"	"	"
64-17-5	Ethanol	7.07	0.500	13.3	0.9		"	"	"	"
75-35-4	1,1-Dichloroethene	BRL	0.500	BRL	2.0		"	"	"	"
75-09-2	Methylene chloride	1.16	0.500	4.0	1.7		"	"	"	"
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	0.500	BRL	3.8		"	"	"	"
75-15-0	Carbon disulfide	BRL	0.500	BRL	1.6		"	"	"	"
156-60-5	trans-1,2-Dichloroethene	BRL	0.500	BRL	2.0		"	"	"	"
75-34-3	1,1-Dichloroethane	BRL	0.500	BRL	2.0		"	"	"	"
1634-04-4	Methyl tert-butyl ether	BRL	0.500	BRL	1.8		"	"	"	"
67-63-0	Isopropyl alcohol	5.04	0.500	12.4	1.2		"	"	"	"
78-93-3	2-Butanone (MEK)	1.12	0.500	3.3	1.5		"	"	"	"
156-59-2	cis-1,2-Dichloroethene	BRL	0.500	BRL	2.0		"	"	"	"
110-54-3	Hexane	BRL	0.500	BRL	1.8		"	"	"	"
141-78-6	Ethyl acetate	BRL	0.500	BRL	1.8		"	"	"	"
67-66-3	Chloroform	BRL	0.500	BRL	2.4		"	"	"	"
109-99-9	Tetrahydrofuran	BRL	0.500	BRL	1.5		"	"	"	"
107-06-2	1,2-Dichloroethane	BRL	0.500	BRL	2.0		"	"	"	"
71-55-6	1,1,1-Trichloroethane	2.55	0.500	13.9	2.7		"	"	"	"
71-43-2	Benzene	BRL	0.500	BRL	1.6		"	"	"	"
56-23-5	Carbon tetrachloride	BRL	0.500	BRL	3.2		"	"	"	"
110-82-7	Cyclohexane	BRL	0.500	BRL	1.7		"	"	"	"
78-87-5	1,2-Dichloropropane	BRL	0.500	BRL	2.3		"	"	"	"
75-27-4	Bromodichloromethane	BRL	0.500	BRL	3.4		"	"	"	"
79-01-6	Trichloroethene	BRL	0.500	BRL	2.7		"	"	"	"
142-82-5	n-Heptane	BRL	0.500	BRL	2.1		"	"	"	"
108-10-1	4-Methyl-2-pentanone (MIBK)	BRL	0.500	BRL	2.1		"	"	"	"
10061-01-5	cis-1,3-Dichloropropene	BRL	0.500	BRL	2.3		"	"	"	"
10061-02-6	trans-1,3-Dichloropropene	BRL	0.500	BRL	2.3		"	"	"	"
79-00-5	1,1,2-Trichloroethane	BRL	0.500	BRL	2.7		"	"	"	"
108-88-3	Toluene	4.03	0.500	15.2	1.9		"	"	"	"
591-78-6	2-Hexanone (MBK)	BRL	0.500	BRL	2.1		"	"	"	"
124-48-1	Dibromochloromethane	BRL	0.500	BRL	4.3		"	"	"	"
106-93-4	1,2-Dibromoethane (EDB)	BRL	0.500	BRL	3.8		"	"	"	"
127-18-4	Tetrachloroethene	58.5	0.500	397.0	3.4		"	"	"	"
108-90-7	Chlorobenzene	BRL	0.500	BRL	2.3		"	"	"	"
100-41-4	Ethylbenzene	BRL	0.500	BRL	2.2		"	"	"	"

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Page 8 of 14

Sample Identification

IA2

SA50126-04

Client Project #
1016545 Phase 908Matrix
AirCollection Date/Time
23-Aug-06 12:04Received
25-Aug-06

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result Units</i>	<i>*RDL</i>	<i>Result ug/m³</i>	<i>*RDL</i>	<i>Flag</i>	<i>Method Ref.</i>	<i>Analyzed</i>	<i>Batch</i>	<i>Analyst</i>
Air Quality Analyses										
<u>EPA TO-15</u>		<u>ppbv</u>								
1330-20-7	m,p-Xylene	1.33	0.500	5.8	2.2		EPA TO-15	31-Aug-06	6082405	WB
75-25-2	Bromoform	BRL	0.500	BRL	5.2		"	"	"	"
100-42-5	Styrene	BRL	0.500	BRL	2.1		"	"	"	"
95-47-6	o-Xylene	0.770	0.500	3.3	2.2		"	"	"	"
79-34-5	1,1,2,2-Tetrachloroethane	BRL	0.500	BRL	3.4		"	"	"	"
108-67-8	1,3,5-Trimethylbenzene	BRL	0.500	BRL	2.5		"	"	"	"
622-96-8	4-Ethyltoluene	BRL	0.500	BRL	2.5		"	"	"	"
95-63-6	1,2,4-Trimethylbenzene	0.820	0.500	4.0	2.5		"	"	"	"
541-73-1	1,3-Dichlorobenzene	BRL	0.500	BRL	3.0		"	"	"	"
100-44-7	Benzyl chloride	BRL	0.500	BRL	2.6		"	"	"	"
106-46-7	1,4-Dichlorobenzene	3.36	0.500	20.2	3.0		"	"	"	"
95-50-1	1,2-Dichlorobenzene	BRL	0.500	BRL	3.0		"	"	"	"
120-82-1	1,2,4-Trichlorobenzene	BRL	0.500	BRL	3.7		"	"	"	"
87-68-3	Hexachlorobutadiene	BRL	0.500	BRL	5.3		"	"	"	"
<u>Surrogate recoveries:</u>										
460-00-4	4-Bromofluorobenzene	96.0	75-125 %				"	"	"	"

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Page 9 of 14

Air Quality Analyses - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6082405 - General Air Prep										
Blank (6082405-BLK1)				Prepared & Analyzed: 31-Aug-06						
Propene	BRL	0.500	ppbv							
Dichlorodifluoromethane (Freon12)	BRL	0.500	ppbv							
Chloromethane	BRL	0.500	ppbv							
1,2-Dichlorotetrafluoroethane (Freon 114)	BRL	0.500	ppbv							
Vinyl chloride	BRL	0.500	ppbv							
1,3-Butadiene	BRL	0.500	ppbv							
Bromomethane	BRL	0.500	ppbv							
Chloroethane	BRL	0.500	ppbv							
Acetone	BRL	0.500	ppbv							
Trichlorofluoromethane (Freon 11)	BRL	0.500	ppbv							
Ethanol	BRL	0.500	ppbv							
1,1-Dichloroethene	BRL	0.500	ppbv							
Methylene chloride	BRL	0.500	ppbv							
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	0.500	ppbv							
Carbon disulfide	BRL	0.500	ppbv							
trans-1,2-Dichloroethene	BRL	0.500	ppbv							
1,1-Dichloroethane	BRL	0.500	ppbv							
Methyl tert-butyl ether	BRL	0.500	ppbv							
Isopropyl alcohol	BRL	0.500	ppbv							
2-Butanone (MEK)	BRL	0.500	ppbv							
cis-1,2-Dichloroethene	BRL	0.500	ppbv							
Hexane	BRL	0.500	ppbv							
Ethyl acetate	BRL	0.500	ppbv							
Chloroform	BRL	0.500	ppbv							
Tetrahydrofuran	BRL	0.500	ppbv							
1,2-Dichloroethane	BRL	0.500	ppbv							
1,1,1-Trichloroethane	BRL	0.500	ppbv							
Benzene	BRL	0.500	ppbv							
Carbon tetrachloride	BRL	0.500	ppbv							
Cyclohexane	BRL	0.500	ppbv							
1,2-Dichloropropane	BRL	0.500	ppbv							
Bromodichloromethane	BRL	0.500	ppbv							
Trichloroethene	BRL	0.500	ppbv							
n-Heptane	BRL	0.500	ppbv							
4-Methyl-2-pentanone (MIBK)	BRL	0.500	ppbv							
cis-1,3-Dichloropropene	BRL	0.500	ppbv							
trans-1,3-Dichloropropene	BRL	0.500	ppbv							
1,1,2-Trichloroethane	BRL	0.500	ppbv							
Toluene	BRL	0.500	ppbv							
2-Hexanone (MBK)	BRL	0.500	ppbv							
Dibromochloromethane	BRL	0.500	ppbv							
1,2-Dibromoethane (EDB)	BRL	0.500	ppbv							
Tetrachloroethene	BRL	0.500	ppbv							
Chlorobenzene	BRL	0.500	ppbv							
Ethylbenzene	BRL	0.500	ppbv							
m,p-Xylene	BRL	0.500	ppbv							
Bromoform	BRL	0.500	ppbv							
Styrene	BRL	0.500	ppbv							
o-Xylene	BRL	0.500	ppbv							
1,1,2,2-Tetrachloroethane	BRL	0.500	ppbv							
1,3,5-Trimethylbenzene	BRL	0.500	ppbv							
4-Ethyltoluene	BRL	0.500	ppbv							
1,2,4-Trimethylbenzene	BRL	0.500	ppbv							
1,3-Dichlorobenzene	BRL	0.500	ppbv							

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Page 10 of 14

Air Quality Analyses - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6082405 - General Air Prep										
Blank (6082405-BLK1)				Prepared & Analyzed: 31-Aug-06						
Benzyl chloride	BRL	0.500	ppbv							
1,4-Dichlorobenzene	BRL	0.500	ppbv							
1,2-Dichlorobenzene	BRL	0.500	ppbv							
1,2,4-Trichlorobenzene	BRL	0.500	ppbv							
Hexachlorobutadiene	BRL	0.500	ppbv							
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.4</i>		<i>ppbv</i>	<i>12.5</i>		<i>91.2</i>	<i>75-125</i>			
LCS (6082405-BS1)				Prepared & Analyzed: 31-Aug-06						
Propene	9.89		ppbv	10.0		98.9	70-130			
Dichlorodifluoromethane (Freon12)	10.2		ppbv	10.0		102	70-130			
Chloromethane	9.22		ppbv	10.0		92.2	70-130			
1,2-Dichlorotetrafluoroethane (Freon 114)	10.5		ppbv	10.0		105	70-130			
Vinyl chloride	10.8		ppbv	10.0		108	70-130			
1,3-Butadiene	11.6		ppbv	10.0		116	70-130			
Bromomethane	11.9		ppbv	10.0		119	70-130			
Chloroethane	12.7		ppbv	10.0		127	70-130			
Acetone	10.1		ppbv	10.0		101	70-130			
Trichlorofluoromethane (Freon 11)	10.1		ppbv	10.0		101	70-130			
Ethanol	12.9		ppbv	10.0		129	70-130			
1,1-Dichloroethene	9.94		ppbv	10.0		99.4	70-130			
Methylene chloride	9.98		ppbv	10.0		99.8	70-130			
1,1,2-Trichlorotrifluoroethane (Freon 113)	9.66		ppbv	10.0		96.6	70-130			
Carbon disulfide	8.39		ppbv	10.0		83.9	70-130			
trans-1,2-Dichloroethene	9.40		ppbv	10.0		94.0	70-130			
1,1-Dichloroethane	10.6		ppbv	10.0		106	70-130			
Methyl tert-butyl ether	10.3		ppbv	10.0		103	70-130			
Isopropyl alcohol	11.9		ppbv	10.0		119	70-130			
2-Butanone (MEK)	9.19		ppbv	10.0		91.9	70-130			
cis-1,2-Dichloroethene	10.4		ppbv	10.0		104	70-130			
Hexane	9.67		ppbv	10.0		96.7	70-130			
Ethyl acetate	8.22		ppbv	10.0		82.2	70-130			
Chloroform	10.2		ppbv	10.0		102	70-130			
Tetrahydrofuran	10.2		ppbv	10.0		102	70-130			
1,2-Dichloroethane	10.2		ppbv	10.0		102	70-130			
1,1,1-Trichloroethane	10.7		ppbv	10.0		107	70-130			
Benzene	10.2		ppbv	10.0		102	70-130			
Carbon tetrachloride	9.80		ppbv	10.0		98.0	70-130			
Cyclohexane	10.6		ppbv	10.0		106	70-130			
1,2-Dichloropropane	10.4		ppbv	10.0		104	70-130			
Bromodichloromethane	10.0		ppbv	10.0		100	70-130			
Trichloroethene	9.99		ppbv	10.0		99.9	70-130			
n-Heptane	10.2		ppbv	10.0		102	70-130			
4-Methyl-2-pentanone (MIBK)	11.6		ppbv	10.0		116	70-130			
cis-1,3-Dichloropropene	9.69		ppbv	10.0		96.9	70-130			
trans-1,3-Dichloropropene	10.1		ppbv	10.0		101	70-130			
1,1,2-Trichloroethane	9.60		ppbv	10.0		96.0	70-130			
Toluene	9.36		ppbv	10.0		93.6	70-130			
2-Hexanone (MBK)	12.1		ppbv	10.0		121	70-130			
Dibromochloromethane	10.1		ppbv	10.0		101	70-130			
1,2-Dibromoethane (EDB)	8.95		ppbv	10.0		89.5	70-130			
Tetrachloroethene	8.78		ppbv	10.0		87.8	70-130			
Chlorobenzene	8.62		ppbv	10.0		86.2	70-130			
Ethylbenzene	8.99		ppbv	10.0		89.9	70-130			
m,p-Xylene	18.5		ppbv	20.0		92.5	70-130			

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Page 11 of 14

Air Quality Analyses - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6082405 - General Air Prep										
LCS (6082405-BS1)				Prepared & Analyzed: 31-Aug-06						
Bromoform	9.67		ppbv	10.0		96.7	70-130			
Styrene	10.9		ppbv	10.0		109	70-130			
o-Xylene	9.87		ppbv	10.0		98.7	70-130			
1,1,2,2-Tetrachloroethane	10.0		ppbv	10.0		100	70-130			
1,3,5-Trimethylbenzene	11.7		ppbv	10.0		117	70-130			
4-Ethyltoluene	10.1		ppbv	10.0		101	70-130			
1,2,4-Trimethylbenzene	10.9		ppbv	10.0		109	70-130			
1,3-Dichlorobenzene	9.59		ppbv	10.0		95.9	70-130			
Benzyl chloride	10.5		ppbv	10.0		105	70-130			
1,4-Dichlorobenzene	9.56		ppbv	10.0		95.6	70-130			
1,2-Dichlorobenzene	10.3		ppbv	10.0		103	70-130			
1,2,4-Trichlorobenzene	11.2		ppbv	10.0		112	70-130			
Hexachlorobutadiene	11.6		ppbv	10.0		116	70-130			
Surrogate: 4-Bromofluorobenzene	12.5		ppbv	12.5		100	75-125			
Duplicate (6082405-DUP1)				Source: SA50381-01		Prepared & Analyzed: 31-Aug-06				
Propene	BRL	0.500	ppbv		BRL				30	
Dichlorodifluoromethane (Freon12)	0.530	0.500	ppbv		0.530			0.00	30	
Chloromethane	0.390	0.500	ppbv		0.380			2.60	30	
1,2-Dichlorotetrafluoroethane (Freon 114)	BRL	0.500	ppbv		BRL				30	
Vinyl chloride	BRL	0.500	ppbv		BRL				30	
1,3-Butadiene	BRL	0.500	ppbv		BRL				30	
Bromomethane	BRL	0.500	ppbv		BRL				30	
Chloroethane	BRL	0.500	ppbv		BRL				30	
Acetone	3.73	0.500	ppbv		3.71			0.538	30	
Trichlorofluoromethane (Freon 11)	BRL	0.500	ppbv		BRL				30	
Ethanol	7.63	0.500	ppbv		7.88			3.22	30	
1,1-Dichloroethene	BRL	0.500	ppbv		BRL				30	
Methylene chloride	0.400	0.500	ppbv		0.410			2.47	30	
1,1,2-Trichlorotrifluoroethane (Freon 113)	BRL	0.500	ppbv		BRL				30	
Carbon disulfide	BRL	0.500	ppbv		BRL				30	
trans-1,2-Dichloroethene	BRL	0.500	ppbv		BRL				30	
1,1-Dichloroethane	BRL	0.500	ppbv		BRL				30	
Methyl tert-butyl ether	BRL	0.500	ppbv		BRL				30	
Isopropyl alcohol	0.720	0.500	ppbv		1.12			43.5	30	QR-05
2-Butanone (MEK)	BRL	0.500	ppbv		BRL				30	
cis-1,2-Dichloroethene	BRL	0.500	ppbv		BRL				30	
Hexane	BRL	0.500	ppbv		BRL				30	
Ethyl acetate	BRL	0.500	ppbv		BRL				30	
Chloroform	BRL	0.500	ppbv		BRL				30	
Tetrahydrofuran	BRL	0.500	ppbv		BRL				30	
1,2-Dichloroethane	BRL	0.500	ppbv		BRL				30	
1,1,1-Trichloroethane	BRL	0.500	ppbv		BRL				30	
Benzene	BRL	0.500	ppbv		BRL				30	
Carbon tetrachloride	BRL	0.500	ppbv		BRL				30	
Cyclohexane	BRL	0.500	ppbv		BRL				30	
1,2-Dichloropropane	BRL	0.500	ppbv		BRL				30	
Bromodichloromethane	BRL	0.500	ppbv		BRL				30	
Trichloroethene	0.800	0.500	ppbv		0.810			1.24	30	
n-Heptane	BRL	0.500	ppbv		BRL				30	
4-Methyl-2-pentanone (MIBK)	BRL	0.500	ppbv		BRL				30	
cis-1,3-Dichloropropene	BRL	0.500	ppbv		BRL				30	
trans-1,3-Dichloropropene	BRL	0.500	ppbv		BRL				30	
1,1,2-Trichloroethane	BRL	0.500	ppbv		BRL				30	

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* Reportable Detection Limit

BRL = Below Reporting Limit

Page 12 of 14

Air Quality Analyses - Quality Control

Analyte(s)	Result	*RDL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Flag
Batch 6082405 - General Air Prep										
Duplicate (6082405-DUP1)	Source: SA50381-01			Prepared & Analyzed: 31-Aug-06						
Toluene	0.570	0.500	ppbv		0.580			1.74	30	
2-Hexanone (MBK)	BRL	0.500	ppbv		BRL				30	
Dibromochloromethane	BRL	0.500	ppbv		BRL				30	
1,2-Dibromoethane (EDB)	BRL	0.500	ppbv		BRL				30	
Tetrachloroethene	BRL	0.500	ppbv		BRL				30	
Chlorobenzene	BRL	0.500	ppbv		BRL				30	
Ethylbenzene	BRL	0.500	ppbv		BRL				30	
m,p-Xylene	BRL	0.500	ppbv		BRL				30	
Bromoform	BRL	0.500	ppbv		BRL				30	
Styrene	BRL	0.500	ppbv		BRL				30	
o-Xylene	BRL	0.500	ppbv		BRL				30	
1,1,2,2-Tetrachloroethane	BRL	0.500	ppbv		BRL				30	
1,3,5-Trimethylbenzene	BRL	0.500	ppbv		BRL				30	
4-Ethyltoluene	BRL	0.500	ppbv		BRL				30	
1,2,4-Trimethylbenzene	BRL	0.500	ppbv		BRL				30	
1,3-Dichlorobenzene	BRL	0.500	ppbv		BRL				30	
Benzyl chloride	BRL	0.500	ppbv		BRL				30	
1,4-Dichlorobenzene	BRL	0.500	ppbv		BRL				30	
1,2-Dichlorobenzene	BRL	0.500	ppbv		BRL				30	
1,2,4-Trichlorobenzene	BRL	0.500	ppbv		BRL				30	
Hexachlorobutadiene	BRL	0.500	ppbv		BRL				30	
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>11.9</i>		ppbv	<i>12.5</i>		<i>95.2</i>	<i>75-125</i>			

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* Reportable Detection Limit

BRL = Below Reporting Limit

Notes and Definitions

QR-05 RPD out of acceptance range.

BRL Below Reporting Limit - Analyte NOT DETECTED at or above the reporting limit

dry Sample results reported on a dry weight basis

NR Not Reported

RPD Relative Percent Difference

A plus sign (+) in the Method Reference column indicates the method is not accredited by NELAC.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Validated by:
Hanibal C. Tayeh, Ph.D.

