18006 - Amato Property
Soil Vapor 11/27/2018

Analyte	Result ug/m3	Location
Acetone	60.2	B-6
Benzene	127	B-6
Carbon Disulfide	110	B-4
Chloroethane	29.4	B-6
Chloroform	126	B-1
Chloromethane	2.03	B-3
1,1 Dichloroethane	263	B-6
1,1-Dichloroethene	10800	B-2
1,2-Dichloropropane	9.06	B-6
cis-1,2-Dichloroethene	498000	B-2
trans-1,2-Dichloroethene	2390	B-2
Ethanol	2460	B-2
Ethylbenzene	18.2	B-6
4-Ethyltoluene	3.32	B-6
1,1,2-Trichlorotrifluoroethane	37800	B-2
Tetrahydrofuran	4.86	B-3
Heptane	2320	B-2
n-Hexane	66.8	B-4
Methylene Chloride	12.8	B-6
MTBE	549	B-6
Propene	230	B-4
Tetrachloroethylene	6630000	B-2
Toluene	1630	B-2
1,1,1-Trichloroethane	133000	B-2
Trichloroethylene	661000	B-2
1,2,4-Trimethylbenzene	6.61	B-6
1,3,5-Trimethybenzene	4.03	B-6
2,2,4-Trimethylpentane	10400	B-2
Vinyl Chloride	108000	B-2
m&p-Xylene	5.29	B-6
o-Xylene	3.31	B-6

ANALYTICAL REPORT

December 04, 2018

Clendenin Consulting Group - VA

Sample Delivery Group:	L1047742
Samples Received:	11/28/2018
Project Number:	18006
Description:	Amato Property

Report To: Samantha Kirk
PO Drawer 6070
Leesburg, VA 20178-7406

Entire Report Reviewed By: Pamela A. Langford

Pam Langford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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ONE LAB. NATIONWIDE.

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B-1 L1047742-01 Air

Collected by	Collected date/time	Received date/time
SJK/JWM	11/27/18 12:15	11/28/18 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204061	2	12/01/18 22:53	12/01/18 22:53	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1204648	80	12/03/18 17:19	12/03/18 17:19	MBF

B-2 L1047742-02 Air

Collected by	Collected date/time	Received date/time
SJK/JWM	11/27/18 10:39	11/28/18 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204061	2000	12/01/18 23:35	12/01/18 23:35	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1204648	40000	12/03/18 18:00	12/03/18 18:00	MBF

B-3 L1047742-03 Air

Collected by	Collected date/time	Received date/time
SJK/JWM	11/27/18 12:04	11/28/18 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204061	2	12/02/18 00:20	12/02/18 00:20	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1204648	200	12/03/18 18:41	12/03/18 18:41	MBF

B-4 L1047742-04 Air

Collected by	Collected date/time	Received date/time
SJK/JWM	11/27/18 11:48	11/28/18 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204061	25	12/02/18 01:03	12/02/18 01:03	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1204648	1000	12/03/18 19:21	12/03/18 19:21	MBF

B-6 L1047742-05 Air

Collected by	Collected date/time	Received date/time
SJK/JWM	11/27/18 11:05	11/28/18 09:15

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204061	2	12/02/18 01:50	12/02/18 01:50	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1204648	80	12/03/18 20:03	12/03/18 20:03	MBF

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Pamela A. Langford

Pam Langford
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	13.0	30.9		2	WG1204061
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1204061
Benzene	71-43-2	78.10	0.400	1.28	0.813	2.60		2	WG1204061
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1204061
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1204061
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1204061
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1204061
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1204061
Carbon disulfide	75-15-0	76.10	0.400	1.24	0.997	3.10		2	WG1204061
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1204061
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1204061
Chloroethane	75-00-3	64.50	0.400	1.06	ND	ND		2	WG1204061
Chloroform	67-66-3	119	0.400	1.95	25.8	126		2	WG1204061
Chloromethane	74-87-3	50.50	0.400	0.826	0.405	0.837		2	WG1204061
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1204061
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1204061
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1204061
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1204061
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1204061
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1204061
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1204061
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1204061
1,1-Dichloroethane	75-34-3	98	0.400	1.60	18.7	75.1		2	WG1204061
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	4.19	16.6		2	WG1204061
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	608	2410		80	WG1204648
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	9.69	38.4		2	WG1204061
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1204061
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1204061
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1204061
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1204061
Ethanol	64-17-5	46.10	1.26	2.38	31.6	59.6		2	WG1204061
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1204061
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1204061
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1204061
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1204061
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	1.28	9.84		2	WG1204061
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1204061
Heptane	142-82-5	100	0.400	1.64	ND	ND		2	WG1204061
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1204061
n-Hexane	110-54-3	86.20	0.400	1.41	ND	ND		2	WG1204061
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1204061
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.564	1.96		2	WG1204061
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1204061
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1204061
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1204061
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1204061
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1204061
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1204061
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1204061
Propene	115-07-1	42.10	0.800	1.38	2.99	5.14		2	WG1204061
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1204061
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1204061
Tetrachloroethylene	127-18-4	166	16.0	109	767	5200		80	WG1204648
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	0.835	2.46		2	WG1204061
Toluene	108-88-3	92.10	0.400	1.51	0.804	3.03		2	WG1204061
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1204061

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	13.5	73.5		2	WG1204061
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1204061
Trichloroethylene	79-01-6	131	16.0	85.7	104	555		80	WG1204648
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1204061
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1204061
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	ND	ND		2	WG1204061
Vinyl chloride	75-01-4	62.50	0.400	1.02	13.2	33.8		2	WG1204061
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1204061
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1204061
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1204061
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*94.7*				WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*80.9*				WG1204648

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2500	5940	ND	ND		2000	WG1204061
Allyl chloride	107-05-1	76.53	400	1250	ND	ND		2000	WG1204061
Benzene	71-43-2	78.10	400	1280	ND	ND		2000	WG1204061
Benzyl Chloride	100-44-7	127	400	2080	ND	ND		2000	WG1204061
Bromodichloromethane	75-27-4	164	400	2680	ND	ND		2000	WG1204061
Bromoform	75-25-2	253	1200	12400	ND	ND		2000	WG1204061
Bromomethane	74-83-9	94.90	400	1550	ND	ND		2000	WG1204061
1,3-Butadiene	106-99-0	54.10	4000	8850	ND	ND		2000	WG1204061
Carbon disulfide	75-15-0	76.10	400	1240	ND	ND		2000	WG1204061
Carbon tetrachloride	56-23-5	154	400	2520	ND	ND		2000	WG1204061
Chlorobenzene	108-90-7	113	400	1850	ND	ND		2000	WG1204061
Chloroethane	75-00-3	64.50	400	1060	ND	ND		2000	WG1204061
Chloroform	67-66-3	119	400	1950	ND	ND		2000	WG1204061
Chloromethane	74-87-3	50.50	400	826	ND	ND		2000	WG1204061
2-Chlorotoluene	95-49-8	126	400	2060	ND	ND		2000	WG1204061
Cyclohexane	110-82-7	84.20	400	1380	ND	ND		2000	WG1204061
Dibromochloromethane	124-48-1	208	400	3400	ND	ND		2000	WG1204061
1,2-Dibromoethane	106-93-4	188	400	3080	ND	ND		2000	WG1204061
1,2-Dichlorobenzene	95-50-1	147	400	2400	ND	ND		2000	WG1204061
1,3-Dichlorobenzene	541-73-1	147	400	2400	ND	ND		2000	WG1204061
1,4-Dichlorobenzene	106-46-7	147	400	2400	ND	ND		2000	WG1204061
1,2-Dichloroethane	107-06-2	99	400	1620	ND	ND		2000	WG1204061
1,1-Dichloroethane	75-34-3	98	400	1600	ND	ND		2000	WG1204061
1,1-Dichloroethene	75-35-4	96.90	400	1590	2730	10800		2000	WG1204061
cis-1,2-Dichloroethene	156-59-2	96.90	8000	31700	126000	498000		40000	WG1204648
trans-1,2-Dichloroethene	156-60-5	96.90	400	1590	603	2390		2000	WG1204061
1,2-Dichloropropane	78-87-5	113	400	1850	ND	ND		2000	WG1204061
cis-1,3-Dichloropropene	10061-01-5	111	400	1820	ND	ND		2000	WG1204061
trans-1,3-Dichloropropene	10061-02-6	111	400	1820	ND	ND		2000	WG1204061
1,4-Dioxane	123-91-1	88.10	400	1440	ND	ND		2000	WG1204061
Ethanol	64-17-5	46.10	1260	2380	1300	2460		2000	WG1204061
Ethylbenzene	100-41-4	106	400	1730	ND	ND		2000	WG1204061
4-Ethyltoluene	622-96-8	120	400	1960	ND	ND		2000	WG1204061
Trichlorofluoromethane	75-69-4	137.40	400	2250	ND	ND		2000	WG1204061
Dichlorodifluoromethane	75-71-8	120.92	400	1980	ND	ND		2000	WG1204061
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	400	3070	4930	37800		2000	WG1204061
1,2-Dichlorotetrafluoroethane	76-14-2	171	400	2800	ND	ND		2000	WG1204061
Heptane	142-82-5	100	400	1640	568	2320		2000	WG1204061
Hexachloro-1,3-butadiene	87-68-3	261	1260	13500	ND	ND		2000	WG1204061
n-Hexane	110-54-3	86.20	400	1410	ND	ND		2000	WG1204061
Isopropylbenzene	98-82-8	120.20	400	1970	ND	ND		2000	WG1204061
Methylene Chloride	75-09-2	84.90	400	1390	ND	ND		2000	WG1204061
Methyl Butyl Ketone	591-78-6	100	2500	10200	ND	ND		2000	WG1204061
2-Butanone (MEK)	78-93-3	72.10	2500	7370	ND	ND		2000	WG1204061
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2500	10200	ND	ND		2000	WG1204061
Methyl methacrylate	80-62-6	100.12	400	1640	ND	ND		2000	WG1204061
MTBE	1634-04-4	88.10	400	1440	ND	ND		2000	WG1204061
Naphthalene	91-20-3	128	1260	6600	ND	ND		2000	WG1204061
2-Propanol	67-63-0	60.10	2500	6150	ND	ND		2000	WG1204061
Propene	115-07-1	42.10	800	1380	ND	ND		2000	WG1204061
Styrene	100-42-5	104	400	1700	ND	ND		2000	WG1204061
1,1,2,2-Tetrachloroethane	79-34-5	168	400	2750	ND	ND		2000	WG1204061
Tetrachloroethylene	127-18-4	166	8000	54300	976000	6630000		40000	WG1204648
Tetrahydrofuran	109-99-9	72.10	400	1180	ND	ND		2000	WG1204061
Toluene	108-88-3	92.10	400	1510	433	1630		2000	WG1204061
1,2,4-Trichlorobenzene	120-82-1	181	1260	9330	ND	ND		2000	WG1204061

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	400	2180	24400	133000		2000	WG1204061
1,1,2-Trichloroethane	79-00-5	133	400	2180	ND	ND		2000	WG1204061
Trichloroethylene	79-01-6	131	8000	42900	123000	661000		40000	WG1204648
1,2,4-Trimethylbenzene	95-63-6	120	400	1960	ND	ND		2000	WG1204061
1,3,5-Trimethylbenzene	108-67-8	120	400	1960	ND	ND		2000	WG1204061
2,2,4-Trimethylpentane	540-84-1	114.22	400	1870	2230	10400		2000	WG1204061
Vinyl chloride	75-01-4	62.50	400	1020	42100	108000		2000	WG1204061
Vinyl Bromide	593-60-2	106.95	400	1750	ND	ND		2000	WG1204061
Vinyl acetate	108-05-4	86.10	400	1410	ND	ND		2000	WG1204061
m&p-Xylene	1330-20-7	106	800	3470	ND	ND		2000	WG1204061
o-Xylene	95-47-6	106	400	1730	ND	ND		2000	WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*102*				WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*73.2*				WG1204648

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	15.7	37.3		2	WG1204061
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1204061
Benzene	71-43-2	78.10	0.400	1.28	1.39	4.45		2	WG1204061
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1204061
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1204061
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1204061
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1204061
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1204061
Carbon disulfide	75-15-0	76.10	0.400	1.24	15.0	46.6		2	WG1204061
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1204061
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1204061
Chloroethane	75-00-3	64.50	0.400	1.06	1.49	3.93		2	WG1204061
Chloroform	67-66-3	119	0.400	1.95	15.1	73.7		2	WG1204061
Chloromethane	74-87-3	50.50	0.400	0.826	0.984	2.03		2	WG1204061
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1204061
Cyclohexane	110-82-7	84.20	0.400	1.38	ND	ND		2	WG1204061
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1204061
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1204061
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1204061
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1204061
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1204061
1,2-Dichloroethane	107-06-2	99	0.400	1.62	ND	ND		2	WG1204061
1,1-Dichloroethane	75-34-3	98	0.400	1.60	0.998	4.00		2	WG1204061
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	3.01	11.9		2	WG1204061
cis-1,2-Dichloroethene	156-59-2	96.90	40.0	159	1650	6520		200	WG1204648
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	78.4	311		2	WG1204061
1,2-Dichloropropane	78-87-5	113	0.400	1.85	ND	ND		2	WG1204061
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1204061
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1204061
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1204061
Ethanol	64-17-5	46.10	1.26	2.38	12.1	22.8		2	WG1204061
Ethylbenzene	100-41-4	106	0.400	1.73	ND	ND		2	WG1204061
4-Ethyltoluene	622-96-8	120	0.400	1.96	ND	ND		2	WG1204061
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1204061
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1204061
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	7.74	59.3		2	WG1204061
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1204061
Heptane	142-82-5	100	0.400	1.64	2.72	11.1		2	WG1204061
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1204061
n-Hexane	110-54-3	86.20	0.400	1.41	8.79	31.0		2	WG1204061
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1204061
Methylene Chloride	75-09-2	84.90	0.400	1.39	0.584	2.03		2	WG1204061
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1204061
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1204061
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1204061
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1204061
MTBE	1634-04-4	88.10	0.400	1.44	ND	ND		2	WG1204061
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1204061
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1204061
Propene	115-07-1	42.10	0.800	1.38	77.0	133		2	WG1204061
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1204061
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1204061
Tetrachloroethylene	127-18-4	166	40.0	272	1900	12900		200	WG1204648
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	1.65	4.86		2	WG1204061
Toluene	108-88-3	92.10	0.400	1.51	1.14	4.30		2	WG1204061
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1204061

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	1.45	7.89		2	WG1204061
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1204061
Trichloroethylene	79-01-6	131	40.0	214	367	1970		200	WG1204648
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	ND	ND		2	WG1204061
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	ND	ND		2	WG1204061
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	2.50	11.7		2	WG1204061
Vinyl chloride	75-01-4	62.50	0.400	1.02	43.4	111		2	WG1204061
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1204061
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1204061
m&p-Xylene	1330-20-7	106	0.800	3.47	ND	ND		2	WG1204061
o-Xylene	95-47-6	106	0.400	1.73	ND	ND		2	WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*98.3*				WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*77.0*				WG1204648

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	31.2	74.1	ND	ND		25	WG1204061
Allyl chloride	107-05-1	76.53	5.00	15.7	ND	ND		25	WG1204061
Benzene	71-43-2	78.10	5.00	16.0	6.74	21.5		25	WG1204061
Benzyl Chloride	100-44-7	127	5.00	26.0	ND	ND		25	WG1204061
Bromodichloromethane	75-27-4	164	5.00	33.5	ND	ND		25	WG1204061
Bromoform	75-25-2	253	15.0	155	ND	ND		25	WG1204061
Bromomethane	74-83-9	94.90	5.00	19.4	ND	ND		25	WG1204061
1,3-Butadiene	106-99-0	54.10	50.0	111	ND	ND		25	WG1204061
Carbon disulfide	75-15-0	76.10	5.00	15.6	35.5	110		25	WG1204061
Carbon tetrachloride	56-23-5	154	5.00	31.5	ND	ND		25	WG1204061
Chlorobenzene	108-90-7	113	5.00	23.1	ND	ND		25	WG1204061
Chloroethane	75-00-3	64.50	5.00	13.2	ND	ND		25	WG1204061
Chloroform	67-66-3	119	5.00	24.3	ND	ND		25	WG1204061
Chloromethane	74-87-3	50.50	5.00	10.3	ND	ND		25	WG1204061
2-Chlorotoluene	95-49-8	126	5.00	25.8	ND	ND		25	WG1204061
Cyclohexane	110-82-7	84.20	5.00	17.2	19.1	65.7		25	WG1204061
Dibromochloromethane	124-48-1	208	5.00	42.5	ND	ND		25	WG1204061
1,2-Dibromoethane	106-93-4	188	5.00	38.4	ND	ND		25	WG1204061
1,2-Dichlorobenzene	95-50-1	147	5.00	30.1	ND	ND		25	WG1204061
1,3-Dichlorobenzene	541-73-1	147	5.00	30.1	ND	ND		25	WG1204061
1,4-Dichlorobenzene	106-46-7	147	5.00	30.1	ND	ND		25	WG1204061
1,2-Dichloroethane	107-06-2	99	5.00	20.2	ND	ND		25	WG1204061
1,1-Dichloroethane	75-34-3	98	5.00	20.0	30.1	121		25	WG1204061
1,1-Dichloroethene	75-35-4	96.90	5.00	19.8	147	584		25	WG1204061
cis-1,2-Dichloroethene	156-59-2	96.90	200	793	42400	168000		1000	WG1204648
trans-1,2-Dichloroethene	156-60-5	96.90	5.00	19.8	527	2090		25	WG1204061
1,2-Dichloropropane	78-87-5	113	5.00	23.1	ND	ND		25	WG1204061
cis-1,3-Dichloropropene	10061-01-5	111	5.00	22.7	ND	ND		25	WG1204061
trans-1,3-Dichloropropene	10061-02-6	111	5.00	22.7	ND	ND		25	WG1204061
1,4-Dioxane	123-91-1	88.10	5.00	18.0	ND	ND		25	WG1204061
Ethanol	64-17-5	46.10	15.8	29.8	ND	ND		25	WG1204061
Ethylbenzene	100-41-4	106	5.00	21.7	ND	ND		25	WG1204061
4-Ethyltoluene	622-96-8	120	5.00	24.5	ND	ND		25	WG1204061
Trichlorofluoromethane	75-69-4	137.40	5.00	28.1	ND	ND		25	WG1204061
Dichlorodifluoromethane	75-71-8	120.92	5.00	24.7	ND	ND		25	WG1204061
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	5.00	38.3	ND	ND		25	WG1204061
1,2-Dichlorotetrafluoroethane	76-14-2	171	5.00	35.0	ND	ND		25	WG1204061
Heptane	142-82-5	100	5.00	20.4	7.62	31.2		25	WG1204061
Hexachloro-1,3-butadiene	87-68-3	261	15.8	169	ND	ND		25	WG1204061
n-Hexane	110-54-3	86.20	5.00	17.6	18.9	66.8		25	WG1204061
Isopropylbenzene	98-82-8	120.20	5.00	24.6	ND	ND		25	WG1204061
Methylene Chloride	75-09-2	84.90	5.00	17.4	ND	ND		25	WG1204061
Methyl Butyl Ketone	591-78-6	100	31.2	128	ND	ND		25	WG1204061
2-Butanone (MEK)	78-93-3	72.10	31.2	92.0	ND	ND		25	WG1204061
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	31.2	128	ND	ND		25	WG1204061
Methyl methacrylate	80-62-6	100.12	5.00	20.5	ND	ND		25	WG1204061
MTBE	1634-04-4	88.10	5.00	18.0	ND	ND		25	WG1204061
Naphthalene	91-20-3	128	15.8	82.7	ND	ND		25	WG1204061
2-Propanol	67-63-0	60.10	31.2	76.7	ND	ND		25	WG1204061
Propene	115-07-1	42.10	10.0	17.2	134	230		25	WG1204061
Styrene	100-42-5	104	5.00	21.3	ND	ND		25	WG1204061
1,1,2,2-Tetrachloroethane	79-34-5	168	5.00	34.4	ND	ND		25	WG1204061
Tetrachloroethylene	127-18-4	166	200	1360	9560	64900		1000	WG1204648
Tetrahydrofuran	109-99-9	72.10	5.00	14.7	ND	ND		25	WG1204061
Toluene	108-88-3	92.10	5.00	18.8	ND	ND		25	WG1204061
1,2,4-Trichlorobenzene	120-82-1	181	15.8	117	ND	ND		25	WG1204061

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	5.00	27.2	ND	ND		25	WG1204061
1,1,2-Trichloroethane	79-00-5	133	5.00	27.2	ND	ND		25	WG1204061
Trichloroethylene	79-01-6	131	200	1070	2440	13100		1000	WG1204648
1,2,4-Trimethylbenzene	95-63-6	120	5.00	24.5	ND	ND		25	WG1204061
1,3,5-Trimethylbenzene	108-67-8	120	5.00	24.5	ND	ND		25	WG1204061
2,2,4-Trimethylpentane	540-84-1	114.22	5.00	23.4	12.3	57.7		25	WG1204061
Vinyl chloride	75-01-4	62.50	200	511	8180	20900		1000	WG1204648
Vinyl Bromide	593-60-2	106.95	5.00	21.9	ND	ND		25	WG1204061
Vinyl acetate	108-05-4	86.10	5.00	17.6	ND	ND		25	WG1204061
m&p-Xylene	1330-20-7	106	10.0	43.4	ND	ND		25	WG1204061
o-Xylene	95-47-6	106	5.00	21.7	ND	ND		25	WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.4*				WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*76.7*				WG1204648

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	2.50	5.94	25.3	60.2		2	WG1204061
Allyl chloride	107-05-1	76.53	0.400	1.25	ND	ND		2	WG1204061
Benzene	71-43-2	78.10	0.400	1.28	39.7	127		2	WG1204061
Benzyl Chloride	100-44-7	127	0.400	2.08	ND	ND		2	WG1204061
Bromodichloromethane	75-27-4	164	0.400	2.68	ND	ND		2	WG1204061
Bromoform	75-25-2	253	1.20	12.4	ND	ND		2	WG1204061
Bromomethane	74-83-9	94.90	0.400	1.55	ND	ND		2	WG1204061
1,3-Butadiene	106-99-0	54.10	4.00	8.85	ND	ND		2	WG1204061
Carbon disulfide	75-15-0	76.10	0.400	1.24	12.8	39.7		2	WG1204061
Carbon tetrachloride	56-23-5	154	0.400	2.52	ND	ND		2	WG1204061
Chlorobenzene	108-90-7	113	0.400	1.85	ND	ND		2	WG1204061
Chloroethane	75-00-3	64.50	0.400	1.06	11.2	29.4		2	WG1204061
Chloroform	67-66-3	119	0.400	1.95	2.81	13.7		2	WG1204061
Chloromethane	74-87-3	50.50	0.400	0.826	0.545	1.13		2	WG1204061
2-Chlorotoluene	95-49-8	126	0.400	2.06	ND	ND		2	WG1204061
Cyclohexane	110-82-7	84.20	0.400	1.38	45.7	157		2	WG1204061
Dibromochloromethane	124-48-1	208	0.400	3.40	ND	ND		2	WG1204061
1,2-Dibromoethane	106-93-4	188	0.400	3.08	ND	ND		2	WG1204061
1,2-Dichlorobenzene	95-50-1	147	0.400	2.40	ND	ND		2	WG1204061
1,3-Dichlorobenzene	541-73-1	147	0.400	2.40	ND	ND		2	WG1204061
1,4-Dichlorobenzene	106-46-7	147	0.400	2.40	ND	ND		2	WG1204061
1,2-Dichloroethane	107-06-2	99	0.400	1.62	1.01	4.09		2	WG1204061
1,1-Dichloroethane	75-34-3	98	16.0	64.1	65.6	263		80	WG1204648
1,1-Dichloroethene	75-35-4	96.90	0.400	1.59	11.7	46.5		2	WG1204061
cis-1,2-Dichloroethene	156-59-2	96.90	16.0	63.4	1250	4970		80	WG1204648
trans-1,2-Dichloroethene	156-60-5	96.90	0.400	1.59	ND	ND		2	WG1204061
1,2-Dichloropropane	78-87-5	113	0.400	1.85	1.96	9.06		2	WG1204061
cis-1,3-Dichloropropene	10061-01-5	111	0.400	1.82	ND	ND		2	WG1204061
trans-1,3-Dichloropropene	10061-02-6	111	0.400	1.82	ND	ND		2	WG1204061
1,4-Dioxane	123-91-1	88.10	0.400	1.44	ND	ND		2	WG1204061
Ethanol	64-17-5	46.10	1.26	2.38	7.50	14.2		2	WG1204061
Ethylbenzene	100-41-4	106	0.400	1.73	4.19	18.2		2	WG1204061
4-Ethyltoluene	622-96-8	120	0.400	1.96	0.676	3.32		2	WG1204061
Trichlorofluoromethane	75-69-4	137.40	0.400	2.25	ND	ND		2	WG1204061
Dichlorodifluoromethane	75-71-8	120.92	0.400	1.98	ND	ND		2	WG1204061
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.400	3.07	1.02	7.78		2	WG1204061
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.400	2.80	ND	ND		2	WG1204061
Heptane	142-82-5	100	0.400	1.64	1.98	8.10		2	WG1204061
Hexachloro-1,3-butadiene	87-68-3	261	1.26	13.5	ND	ND		2	WG1204061
n-Hexane	110-54-3	86.20	0.400	1.41	12.4	43.7		2	WG1204061
Isopropylbenzene	98-82-8	120.20	0.400	1.97	ND	ND		2	WG1204061
Methylene Chloride	75-09-2	84.90	0.400	1.39	3.68	12.8		2	WG1204061
Methyl Butyl Ketone	591-78-6	100	2.50	10.2	ND	ND		2	WG1204061
2-Butanone (MEK)	78-93-3	72.10	2.50	7.37	ND	ND		2	WG1204061
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	2.50	10.2	ND	ND		2	WG1204061
Methyl methacrylate	80-62-6	100.12	0.400	1.64	ND	ND		2	WG1204061
MTBE	1634-04-4	88.10	16.0	57.7	152	549		80	WG1204648
Naphthalene	91-20-3	128	1.26	6.60	ND	ND		2	WG1204061
2-Propanol	67-63-0	60.10	2.50	6.15	ND	ND		2	WG1204061
Propene	115-07-1	42.10	32.0	55.1	131	226	J3 J4	80	WG1204648
Styrene	100-42-5	104	0.400	1.70	ND	ND		2	WG1204061
1,1,2,2-Tetrachloroethane	79-34-5	168	0.400	2.75	ND	ND		2	WG1204061
Tetrachloroethylene	127-18-4	166	16.0	109	1690	11500		80	WG1204648
Tetrahydrofuran	109-99-9	72.10	0.400	1.18	ND	ND		2	WG1204061
Toluene	108-88-3	92.10	0.400	1.51	1.72	6.49		2	WG1204061
1,2,4-Trichlorobenzene	120-82-1	181	1.26	9.33	ND	ND		2	WG1204061

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.400	2.18	4.32	23.5		2	WG1204061
1,1,2-Trichloroethane	79-00-5	133	0.400	2.18	ND	ND		2	WG1204061
Trichloroethylene	79-01-6	131	16.0	85.7	525	2820		80	WG1204648
1,2,4-Trimethylbenzene	95-63-6	120	0.400	1.96	1.35	6.61		2	WG1204061
1,3,5-Trimethylbenzene	108-67-8	120	0.400	1.96	0.821	4.03		2	WG1204061
2,2,4-Trimethylpentane	540-84-1	114.22	0.400	1.87	18.7	87.4		2	WG1204061
Vinyl chloride	75-01-4	62.50	16.0	40.9	232	593		80	WG1204648
Vinyl Bromide	593-60-2	106.95	0.400	1.75	ND	ND		2	WG1204061
Vinyl acetate	108-05-4	86.10	0.400	1.41	ND	ND		2	WG1204061
m&p-Xylene	1330-20-7	106	0.800	3.47	1.22	5.29		2	WG1204061
o-Xylene	95-47-6	106	0.400	1.73	0.764	3.31		2	WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*103*				WG1204061
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*82.5*				WG1204648

Method Blank (MB)

(MB) R3364446-3 12/01/18 11:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	U		0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	0.0602	J	0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	0.0863	J	0.0603	0.200
1,3-Dichlorobenzene	0.0700	J	0.0597	0.200
1,4-Dichlorobenzene	0.0694	J	0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
4-Ethyltoluene	U		0.0666	0.200
Ethylbenzene	U		0.0506	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	0.259	J	0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200
Methylene Chloride	U		0.0465	0.200

Method Blank (MB)

(MB) R3364446-3 12/01/18 11:17

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	0.172	J	0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrahydrofuran	U		0.0508	0.200
1,2,4-Trichlorobenzene	0.153	J	0.148	0.630
Toluene	U		0.0499	0.200
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	*84.3*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364446-1 12/01/18 09:39 • (LCSD) R3364446-2 12/01/18 10:27

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	2.99	3.10	79.7	82.6	55.0-148			3.62	25
Propene	3.75	3.09	3.05	82.3	81.4	64.0-144			1.20	25
Dichlorodifluoromethane	3.75	3.29	3.27	87.6	87.1	64.0-139			0.585	25
1,2-Dichlorotetrafluoroethane	3.75	3.62	3.55	96.6	94.7	70.0-130			1.99	25
Chloromethane	3.75	3.13	3.12	83.4	83.3	70.0-130			0.174	25
Vinyl chloride	3.75	3.26	3.21	86.8	85.6	70.0-130			1.41	25
1,3-Butadiene	3.75	2.92	2.98	77.9	79.4	70.0-130			1.87	25
Bromomethane	3.75	3.60	3.59	96.0	95.7	70.0-130			0.291	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364446-1 12/01/18 09:39 • (LCSD) R3364446-2 12/01/18 10:27

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Chloroethane	3.75	3.35	3.26	89.4	87.0	70.0-130			2.72	25
Trichlorofluoromethane	3.75	3.44	3.42	91.8	91.1	70.0-130			0.683	25
1,1,2-Trichlorotrifluoroethane	3.75	3.64	3.58	97.1	95.5	70.0-130			1.74	25
1,1-Dichloroethene	3.75	3.18	3.14	84.9	83.7	70.0-130			1.42	25
1,1-Dichloroethane	3.75	3.35	3.30	89.3	88.0	70.0-130			1.38	25
MTBE	3.75	3.38	3.33	90.1	88.7	70.0-130			1.53	25
Acetone	3.75	3.18	3.15	84.7	84.0	70.0-130			0.816	25
2-Propanol	3.75	3.27	3.23	87.1	86.0	70.0-139			1.28	25
Carbon disulfide	3.75	3.49	3.46	93.2	92.3	70.0-130			0.952	25
Methylene Chloride	3.75	2.96	2.97	78.9	79.3	70.0-130			0.530	25
trans-1,2-Dichloroethene	3.75	3.72	3.61	99.3	96.3	70.0-130			3.02	25
n-Hexane	3.75	3.35	3.31	89.3	88.4	70.0-130			1.04	25
Vinyl acetate	3.75	3.34	3.30	89.1	88.1	70.0-130			1.10	25
Methyl Ethyl Ketone	3.75	3.64	3.55	97.1	94.7	70.0-130			2.51	25
Benzene	3.75	3.61	3.62	96.3	96.5	70.0-130			0.263	25
Chloroform	3.75	3.47	3.43	92.6	91.4	70.0-130			1.26	25
Cyclohexane	3.75	3.59	3.53	95.8	94.2	70.0-130			1.73	25
1,1,1-Trichloroethane	3.75	3.50	3.49	93.4	93.0	70.0-130			0.422	25
Carbon tetrachloride	3.75	3.55	3.55	94.6	94.7	70.0-130			0.0927	25
1,2-Dichloroethane	3.75	3.23	3.30	86.0	88.1	70.0-130			2.43	25
Heptane	3.75	3.25	3.32	86.8	88.4	70.0-130			1.92	25
1,2-Dichloropropane	3.75	3.43	3.44	91.4	91.8	70.0-130			0.399	25
Toluene	3.75	3.74	3.77	99.8	101	70.0-130			0.868	25
1,4-Dioxane	3.75	3.40	3.88	90.6	103	70.0-140			13.2	25
Bromodichloromethane	3.75	3.53	3.57	94.1	95.1	70.0-130			0.982	25
cis-1,3-Dichloropropene	3.75	3.61	3.59	96.3	95.6	70.0-130			0.645	25
4-Methyl-2-pentanone (MIBK)	3.75	3.43	3.51	91.5	93.7	70.0-139			2.41	25
trans-1,3-Dichloropropene	3.75	3.53	3.57	94.2	95.1	70.0-130			0.933	25
1,1,2-Trichloroethane	3.75	3.74	3.77	99.9	101	70.0-130			0.749	25
Ethylbenzene	3.75	3.59	3.67	95.8	97.8	70.0-130			2.01	25
m&p-Xylene	7.50	6.98	7.09	93.1	94.5	70.0-130			1.51	25
Methyl Butyl Ketone	3.75	3.51	3.64	93.6	97.1	70.0-149			3.70	25
Dibromochloromethane	3.75	3.88	3.91	103	104	70.0-130			0.905	25
o-Xylene	3.75	3.49	3.52	93.0	93.8	70.0-130			0.872	25
1,2-Dibromoethane	3.75	3.78	3.80	101	101	70.0-130			0.272	25
Chlorobenzene	3.75	3.76	3.78	100	101	70.0-130			0.682	25
Styrene	3.75	3.75	3.84	99.9	103	70.0-130			2.55	25
Bromoform	3.75	4.07	4.14	109	111	70.0-130			1.72	25
1,1,2,2-Tetrachloroethane	3.75	3.50	3.51	93.3	93.5	70.0-130			0.236	25
4-Ethyltoluene	3.75	3.56	3.62	95.0	96.4	70.0-130			1.50	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364446-1 12/01/18 09:39 • (LCSD) R3364446-2 12/01/18 10:27

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
1,3,5-Trimethylbenzene	3.75	3.24	3.49	86.5	93.0	70.0-130			7.30	25
1,2,4-Trimethylbenzene	3.75	3.47	3.53	92.7	94.2	70.0-130			1.62	25
1,3-Dichlorobenzene	3.75	4.06	4.17	108	111	70.0-130			2.59	25
1,4-Dichlorobenzene	3.75	4.00	4.03	107	107	70.0-130			0.844	25
Benzyl Chloride	3.75	3.89	3.94	104	105	70.0-152			1.30	25
1,2-Dichlorobenzene	3.75	3.88	3.94	104	105	70.0-130			1.55	25
1,2,4-Trichlorobenzene	3.75	5.06	5.20	135	139	70.0-160			2.77	25
Hexachloro-1,3-butadiene	3.75	4.15	4.26	111	114	70.0-151			2.59	25
Naphthalene	3.75	5.01	5.15	134	137	70.0-159			2.68	25
Allyl Chloride	3.75	3.42	3.31	91.3	88.4	70.0-130			3.28	25
2-Chlorotoluene	3.75	3.33	3.38	88.8	90.1	70.0-130			1.46	25
Methyl Methacrylate	3.75	3.58	3.57	95.5	95.1	70.0-130			0.404	25
Tetrahydrofuran	3.75	3.23	3.24	86.1	86.4	70.0-137			0.349	25
2,2,4-Trimethylpentane	3.75	3.33	3.31	88.7	88.2	70.0-130			0.545	25
Vinyl Bromide	3.75	3.82	3.78	102	101	70.0-130			1.20	25
Isopropylbenzene	3.75	3.53	3.59	94.1	95.7	70.0-130			1.65	25
(S) 1,4-Bromofluorobenzene				*91.7*	*91.7*	*60.0-140*				

Method Blank (MB)

(MB) R3364688-3 12/03/18 10:26

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
1,1-Dichloroethane	U		0.0514	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
MTBE	U		0.0505	0.200
Propene	U		0.0932	0.400
Tetrachloroethylene	U		0.0497	0.200
Trichloroethylene	U		0.0545	0.200
Vinyl chloride	U		0.0457	0.200
(S) 1,4-Bromofluorobenzene	*77.8*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364688-1 12/03/18 08:58 • (LCSD) R3364688-2 12/03/18 09:42

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
Propene	3.75	3.30	2.38	88.0	63.4	64.0-144		J3 J4	32.5	25
Vinyl chloride	3.75	3.49	3.62	93.0	96.4	70.0-130			3.63	25
1,1-Dichloroethane	3.75	3.56	3.66	95.0	97.7	70.0-130			2.79	25
MTBE	3.75	3.65	3.78	97.3	101	70.0-130			3.57	25
cis-1,2-Dichloroethene	3.75	3.61	3.71	96.2	99.0	70.0-130			2.80	25
Trichloroethylene	3.75	3.79	3.87	101	103	70.0-130			2.13	25
Tetrachloroethylene	3.75	4.12	4.20	110	112	70.0-130			1.96	25
(S) 1,4-Bromofluorobenzene				*100*	*98.0*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

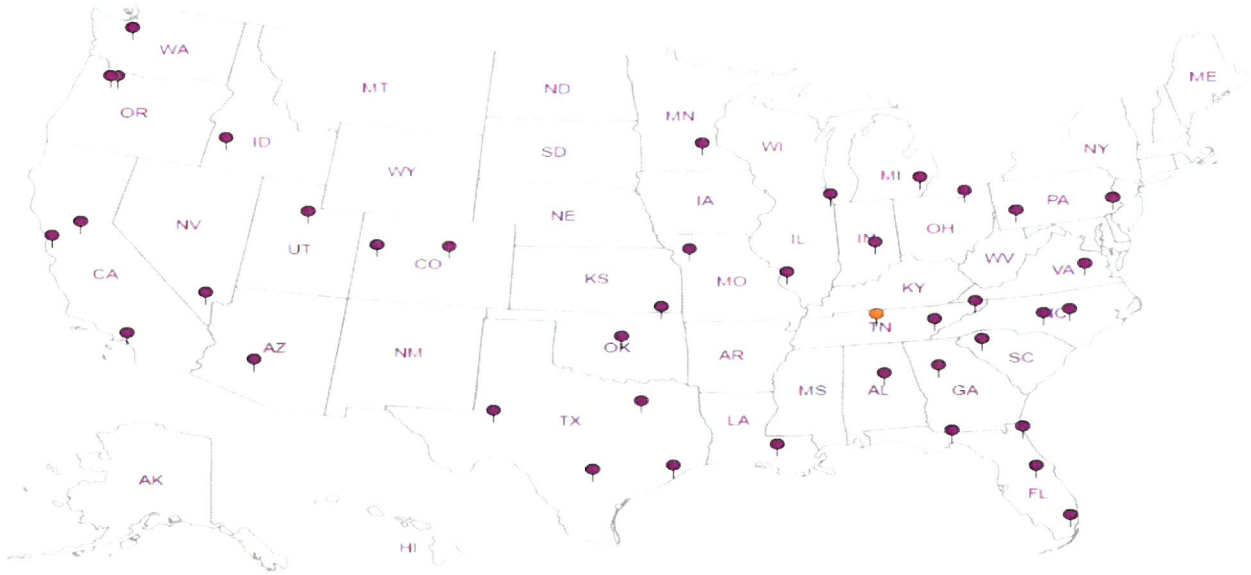
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Company Name/Address: CCRG
116-C2 Edwards Ferry Rd
Leesburg VA 20176

Billing Information: PO Box 6070, 20178.
Quote# CLECONLVA1002185

Report to: Samantha Kirk.

Email To: sam@clendaniaconsulting.com

Project Description: Amato Property

City/State Collected: Silver Spring MD

Phone: 703 771 8816
Fax:

Client Project #: 18006.

Lab Project #

Collected by (print): SJK/JWM

Site/Facility ID #

P.O. #

Collected by (signature):

Rush? (Lab MUST Be Notified)
___ Same Day ... 200%
___ Next Day ... 100%
___ Two Day ... 50%
___ Three Day ... 25%

Date Results Needed: Standard.

Email? ___No ✓Yes
FAX? ___No ___Yes

Canister Pressure/Vacuum

Analysis: TO-15 Full Scan

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1047742
T: M190
Acctnum: CLECONLVA
Template:
Prelogin:
TSR: Pam Langford
PB: BF 11/16/18
Shipped Via: Ground

Sample ID	Sample Description	Can #	Date	Time	Initial	Final	Rem./Contaminant	Sample # (lab only)
B-1	VAPOR	7397	11/27/18	12:15	22	0		01
B-2	"	7295	11/27/18	10:39	12	4		02
B-3	"	5442	11/27/18	12:04	22	0		03
B-4	"	6165	11/27/18	11:48	22	0		04
B-5	DO NOT ANALYZE	9369						
B-6	"	9399	11/27/18	11:05	17	0		05

4510 166 5 2201, 2212

Remarks: Do not analyze "B-5"; water present.

Hold #

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ____
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)	Temp: Amb °C Bottles Received: 5
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 11/28/18 Time: 0915

Condition: (lab use only)
COC Seal Intact: ___Y ___N ___NA
pH Checked: NCF: X

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client:	CPCON/VA	SDG#	107772
Cooler Received/Opened On: 11/28/18		Temperature:	Amb
Received By: Eric Struck			
Signature:			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?			
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

18006 - Amato Property
Sub-Slab Vapor 11/28/2018

Analyte	Result ug/m3	Location
Acetone	11.8	B-7
Benzene	22.4	B-9
Carbon Disulfide	74.7	B-10
Carbon Tetrachloride	6.05	B-7
Chloroform	281	B-9
Chloromethane	0.81	B-10
1,1 Dichloroethane	102	B-9
1,1-Dichloroethene	34.6	B-9
cis-1,2-Dichloroethene	6600	B-9
trans-1,2-Dichloroethene	202	B-10
Ethanol	51.3	B-7
Ethylbenzene	5.06	B-7
4-Ethyltoluene	11.3	B-7
Trichlorofluoromethane	1.23	B-7
Dichlorodifluoromethane	1.71	B-7
1,1,2-Trichlorotrifluoroethane	124	B-9
Heptane	7.04	B-10
n-Hexane	15.9	B-9
Methylene Chloride	5.94	B-8
MTBE	3.67	B-10
Propene	53.4	B-10
Styrene	1.41	B-7
Tetrachloroethylene	124000	B-9
Toluene	20.4	B-7
1,1,1-Trichloroethane	1060	B-9
Trichloroethylene	24100	B-9
1,2,4-Trimethylbenzene	10.6	B-7
1,3,5-Trimethybenzene	3.05	B-7
2,2,4-Trimethylpentane	26	B-9
Vinyl Chloride	71.5	B-10
m&p-Xylene	19.1	B-7
o-Xylene	6.73	B-7

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

December 05, 2018

Clendenin Consulting Group - VA

Sample Delivery Group:	L1048381
Samples Received:	11/29/2018
Project Number:	18006
Description:	Amato Property

Report To: Samantha Kirk
116 C2 Edwards Ferry Road
Leesburg, VA 20176

Entire Report Reviewed By: Pamela A. Langford

Pam Langford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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ONE LAB. NATIONWIDE.

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B-7 L1048381-01 Air

Collected by	Collected date/time	Received date/time
JWM	11/28/18 07:54	11/29/18 09:25

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204732	1	12/03/18 20:43	12/03/18 20:43	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1205170	25	12/04/18 14:18	12/04/18 14:18	MBF

B-8 L1048381-02 Air

Collected by	Collected date/time	Received date/time
JWM	11/28/18 08:06	11/29/18 09:25

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204732	1	12/03/18 21:32	12/03/18 21:32	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1205170	10	12/04/18 14:59	12/04/18 14:59	MBF

B-9 L1048381-03 Air

Collected by	Collected date/time	Received date/time
JWM	11/28/18 08:16	11/29/18 09:25

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204732	20	12/03/18 22:14	12/03/18 22:14	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1205170	400	12/04/18 23:21	12/04/18 23:21	MBF

B-10 L1048381-04 Air

Collected by	Collected date/time	Received date/time
JWM	11/28/18 08:23	11/29/18 09:25

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (MS) by Method TO-15	WG1204732	1	12/03/18 23:08	12/03/18 23:08	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1205170	100	12/05/18 00:43	12/05/18 00:43	MBF
Volatile Organic Compounds (MS) by Method TO-15	WG1205170	25	12/05/18 00:02	12/05/18 00:02	MBF

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Pamela A. Langford

Pam Langford
Project Manager

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	4.97	11.8		1	WG1204732
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1204732
Benzene	71-43-2	78.10	0.200	0.639	2.28	7.30		1	WG1204732
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1204732
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1204732
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1204732
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1204732
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1204732
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1204732
Carbon tetrachloride	56-23-5	154	0.200	1.26	0.960	6.05		1	WG1204732
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1204732
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1204732
Chloroform	67-66-3	119	0.200	0.973	2.08	10.1		1	WG1204732
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1204732
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1204732
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1204732
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1204732
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1204732
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1204732
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1204732
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1204732
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1204732
1,1-Dichloroethane	75-34-3	98	0.200	0.802	0.253	1.01		1	WG1204732
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1204732
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	7.25	28.7		1	WG1204732
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	0.600	2.38		1	WG1204732
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1204732
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1204732
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1204732
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1204732
Ethanol	64-17-5	46.10	0.630	1.19	27.2	51.3		1	WG1204732
Ethylbenzene	100-41-4	106	0.200	0.867	1.17	5.06		1	WG1204732
4-Ethyltoluene	622-96-8	120	0.200	0.982	2.31	11.3		1	WG1204732
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.220	1.23		1	WG1204732
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.346	1.71		1	WG1204732
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	1.37	10.5		1	WG1204732
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1204732
Heptane	142-82-5	100	0.200	0.818	1.05	4.28		1	WG1204732
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1204732
n-Hexane	110-54-3	86.20	0.200	0.705	3.25	11.4		1	WG1204732
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1204732
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.35	4.67		1	WG1204732
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1204732
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1204732
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1204732
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1204732
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1204732
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1204732
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1204732
Propene	115-07-1	42.10	0.400	0.689	7.18	12.4		1	WG1204732
Styrene	100-42-5	104	0.200	0.851	0.330	1.41		1	WG1204732
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1204732
Tetrachloroethylene	127-18-4	166	5.00	33.9	799	5420		25	WG1205170
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1204732
Toluene	108-88-3	92.10	0.200	0.753	5.42	20.4		1	WG1204732
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1204732

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	4.28	23.3		1	WG1204732
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1204732
Trichloroethylene	79-01-6	131	5.00	26.8	66.6	357		25	WG1205170
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	2.15	10.6		1	WG1204732
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.622	3.05		1	WG1204732
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	2.77	12.9		1	WG1204732
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1204732
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1204732
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1204732
m&p-Xylene	1330-20-7	106	0.400	1.73	4.40	19.1		1	WG1204732
o-Xylene	95-47-6	106	0.200	0.867	1.55	6.73		1	WG1204732
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.0*				WG1204732
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*77.6*				WG1205170

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	1.96	4.65		1	WG1204732
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1204732
Benzene	71-43-2	78.10	0.200	0.639	0.283	0.905		1	WG1204732
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1204732
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1204732
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1204732
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1204732
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1204732
Carbon disulfide	75-15-0	76.10	0.200	0.622	ND	ND		1	WG1204732
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1204732
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1204732
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1204732
Chloroform	67-66-3	119	0.200	0.973	0.238	1.16		1	WG1204732
Chloromethane	74-87-3	50.50	0.200	0.413	ND	ND		1	WG1204732
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1204732
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1204732
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1204732
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1204732
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1204732
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1204732
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1204732
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1204732
1,1-Dichloroethane	75-34-3	98	0.200	0.802	ND	ND		1	WG1204732
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	ND	ND		1	WG1204732
cis-1,2-Dichloroethene	156-59-2	96.90	0.200	0.793	0.213	0.842		1	WG1204732
trans-1,2-Dichloroethene	156-60-5	96.90	0.200	0.793	0.236	0.937		1	WG1204732
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1204732
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1204732
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1204732
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1204732
Ethanol	64-17-5	46.10	0.630	1.19	ND	ND		1	WG1204732
Ethylbenzene	100-41-4	106	0.200	0.867	0.455	1.97		1	WG1204732
4-Ethyltoluene	622-96-8	120	0.200	0.982	1.78	8.72		1	WG1204732
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	0.214	1.20		1	WG1204732
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.292	1.44		1	WG1204732
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	12.2	93.6		1	WG1204732
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1204732
Heptane	142-82-5	100	0.200	0.818	ND	ND		1	WG1204732
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1204732
n-Hexane	110-54-3	86.20	0.200	0.705	1.05	3.71		1	WG1204732
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1204732
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.71	5.94		1	WG1204732
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1204732
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1204732
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1204732
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1204732
MTBE	1634-04-4	88.10	0.200	0.721	ND	ND		1	WG1204732
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1204732
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1204732
Propene	115-07-1	42.10	0.400	0.689	0.470	0.810		1	WG1204732
Styrene	100-42-5	104	0.200	0.851	ND	ND		1	WG1204732
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1204732
Tetrachloroethylene	127-18-4	166	2.00	13.6	250	1690		10	WG1205170
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1204732
Toluene	108-88-3	92.10	0.200	0.753	1.40	5.28		1	WG1204732
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1204732

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	9.19	50.0		1	WG1204732
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1204732
Trichloroethylene	79-01-6	131	2.00	10.7	125	672		10	WG1205170
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.63	7.98		1	WG1204732
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.415	2.04		1	WG1204732
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	0.215	1.00		1	WG1204732
Vinyl chloride	75-01-4	62.50	0.200	0.511	ND	ND		1	WG1204732
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1204732
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1204732
m&p-Xylene	1330-20-7	106	0.400	1.73	2.26	9.79		1	WG1204732
o-Xylene	95-47-6	106	0.200	0.867	0.688	2.98		1	WG1204732
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*95.8*				WG1204732
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*77.7*				WG1205170

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	25.0	59.4	ND	ND		20	WG1204732
Allyl chloride	107-05-1	76.53	4.00	12.5	ND	ND		20	WG1204732
Benzene	71-43-2	78.10	4.00	12.8	7.00	22.4		20	WG1204732
Benzyl Chloride	100-44-7	127	4.00	20.8	ND	ND		20	WG1204732
Bromodichloromethane	75-27-4	164	4.00	26.8	ND	ND		20	WG1204732
Bromoform	75-25-2	253	12.0	124	ND	ND		20	WG1204732
Bromomethane	74-83-9	94.90	4.00	15.5	ND	ND		20	WG1204732
1,3-Butadiene	106-99-0	54.10	40.0	88.5	ND	ND		20	WG1204732
Carbon disulfide	75-15-0	76.10	4.00	12.4	ND	ND		20	WG1204732
Carbon tetrachloride	56-23-5	154	4.00	25.2	ND	ND		20	WG1204732
Chlorobenzene	108-90-7	113	4.00	18.5	ND	ND		20	WG1204732
Chloroethane	75-00-3	64.50	4.00	10.6	ND	ND		20	WG1204732
Chloroform	67-66-3	119	4.00	19.5	57.8	281		20	WG1204732
Chloromethane	74-87-3	50.50	4.00	8.26	ND	ND		20	WG1204732
2-Chlorotoluene	95-49-8	126	4.00	20.6	ND	ND		20	WG1204732
Cyclohexane	110-82-7	84.20	4.00	13.8	ND	ND		20	WG1204732
Dibromochloromethane	124-48-1	208	4.00	34.0	ND	ND		20	WG1204732
1,2-Dibromoethane	106-93-4	188	4.00	30.8	ND	ND		20	WG1204732
1,2-Dichlorobenzene	95-50-1	147	4.00	24.0	ND	ND		20	WG1204732
1,3-Dichlorobenzene	541-73-1	147	4.00	24.0	ND	ND		20	WG1204732
1,4-Dichlorobenzene	106-46-7	147	4.00	24.0	ND	ND		20	WG1204732
1,2-Dichloroethane	107-06-2	99	4.00	16.2	ND	ND		20	WG1204732
1,1-Dichloroethane	75-34-3	98	4.00	16.0	25.5	102		20	WG1204732
1,1-Dichloroethene	75-35-4	96.90	4.00	15.9	8.74	34.6		20	WG1204732
cis-1,2-Dichloroethene	156-59-2	96.90	80.0	317	1660	6600		400	WG1205170
trans-1,2-Dichloroethene	156-60-5	96.90	4.00	15.9	35.5	141		20	WG1204732
1,2-Dichloropropane	78-87-5	113	4.00	18.5	ND	ND		20	WG1204732
cis-1,3-Dichloropropene	10061-01-5	111	4.00	18.2	ND	ND		20	WG1204732
trans-1,3-Dichloropropene	10061-02-6	111	4.00	18.2	ND	ND		20	WG1204732
1,4-Dioxane	123-91-1	88.10	4.00	14.4	ND	ND		20	WG1204732
Ethanol	64-17-5	46.10	12.6	23.8	ND	ND		20	WG1204732
Ethylbenzene	100-41-4	106	4.00	17.3	ND	ND		20	WG1204732
4-Ethyltoluene	622-96-8	120	4.00	19.6	ND	ND		20	WG1204732
Trichlorofluoromethane	75-69-4	137.40	4.00	22.5	ND	ND		20	WG1204732
Dichlorodifluoromethane	75-71-8	120.92	4.00	19.8	ND	ND		20	WG1204732
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	4.00	30.7	16.2	124		20	WG1204732
1,2-Dichlorotetrafluoroethane	76-14-2	171	4.00	28.0	ND	ND		20	WG1204732
Heptane	142-82-5	100	4.00	16.4	ND	ND		20	WG1204732
Hexachloro-1,3-butadiene	87-68-3	261	12.6	135	ND	ND		20	WG1204732
n-Hexane	110-54-3	86.20	4.00	14.1	4.51	15.9		20	WG1204732
Isopropylbenzene	98-82-8	120.20	4.00	19.7	ND	ND		20	WG1204732
Methylene Chloride	75-09-2	84.90	4.00	13.9	ND	ND		20	WG1204732
Methyl Butyl Ketone	591-78-6	100	25.0	102	ND	ND		20	WG1204732
2-Butanone (MEK)	78-93-3	72.10	25.0	73.7	ND	ND		20	WG1204732
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	25.0	102	ND	ND		20	WG1204732
Methyl methacrylate	80-62-6	100.12	4.00	16.4	ND	ND		20	WG1204732
MTBE	1634-04-4	88.10	4.00	14.4	ND	ND		20	WG1204732
Naphthalene	91-20-3	128	12.6	66.0	ND	ND		20	WG1204732
2-Propanol	67-63-0	60.10	25.0	61.5	ND	ND		20	WG1204732
Propene	115-07-1	42.10	8.00	13.8	13.1	22.5		20	WG1204732
Styrene	100-42-5	104	4.00	17.0	ND	ND		20	WG1204732
1,1,2,2-Tetrachloroethane	79-34-5	168	4.00	27.5	ND	ND		20	WG1204732
Tetrachloroethylene	127-18-4	166	80.0	543	18200	124000		400	WG1205170
Tetrahydrofuran	109-99-9	72.10	4.00	11.8	ND	ND		20	WG1204732
Toluene	108-88-3	92.10	4.00	15.1	4.45	16.7		20	WG1204732
1,2,4-Trichlorobenzene	120-82-1	181	12.6	93.3	ND	ND		20	WG1204732

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	4.00	21.8	196	1060		20	WG1204732
1,1,2-Trichloroethane	79-00-5	133	4.00	21.8	ND	ND		20	WG1204732
Trichloroethylene	79-01-6	131	80.0	429	4500	24100		400	WG1205170
1,2,4-Trimethylbenzene	95-63-6	120	4.00	19.6	ND	ND		20	WG1204732
1,3,5-Trimethylbenzene	108-67-8	120	4.00	19.6	ND	ND		20	WG1204732
2,2,4-Trimethylpentane	540-84-1	114.22	4.00	18.7	5.57	26.0		20	WG1204732
Vinyl chloride	75-01-4	62.50	4.00	10.2	ND	ND		20	WG1204732
Vinyl Bromide	593-60-2	106.95	4.00	17.5	ND	ND		20	WG1204732
Vinyl acetate	108-05-4	86.10	4.00	14.1	ND	ND		20	WG1204732
m&p-Xylene	1330-20-7	106	8.00	34.7	ND	ND		20	WG1204732
o-Xylene	95-47-6	106	4.00	17.3	ND	ND		20	WG1204732
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*96.4*				WG1204732
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*73.2*				WG1205170

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
Acetone	67-64-1	58.10	1.25	2.97	2.65	6.29		1	WG1204732
Allyl chloride	107-05-1	76.53	0.200	0.626	ND	ND		1	WG1204732
Benzene	71-43-2	78.10	0.200	0.639	3.43	10.9		1	WG1204732
Benzyl Chloride	100-44-7	127	0.200	1.04	ND	ND		1	WG1204732
Bromodichloromethane	75-27-4	164	0.200	1.34	ND	ND		1	WG1204732
Bromoform	75-25-2	253	0.600	6.21	ND	ND		1	WG1204732
Bromomethane	74-83-9	94.90	0.200	0.776	ND	ND		1	WG1204732
1,3-Butadiene	106-99-0	54.10	2.00	4.43	ND	ND		1	WG1204732
Carbon disulfide	75-15-0	76.10	0.200	0.622	24.0	74.7		1	WG1204732
Carbon tetrachloride	56-23-5	154	0.200	1.26	ND	ND		1	WG1204732
Chlorobenzene	108-90-7	113	0.200	0.924	ND	ND		1	WG1204732
Chloroethane	75-00-3	64.50	0.200	0.528	ND	ND		1	WG1204732
Chloroform	67-66-3	119	0.200	0.973	8.15	39.7		1	WG1204732
Chloromethane	74-87-3	50.50	0.200	0.413	0.392	0.810		1	WG1204732
2-Chlorotoluene	95-49-8	126	0.200	1.03	ND	ND		1	WG1204732
Cyclohexane	110-82-7	84.20	0.200	0.689	ND	ND		1	WG1204732
Dibromochloromethane	124-48-1	208	0.200	1.70	ND	ND		1	WG1204732
1,2-Dibromoethane	106-93-4	188	0.200	1.54	ND	ND		1	WG1204732
1,2-Dichlorobenzene	95-50-1	147	0.200	1.20	ND	ND		1	WG1204732
1,3-Dichlorobenzene	541-73-1	147	0.200	1.20	ND	ND		1	WG1204732
1,4-Dichlorobenzene	106-46-7	147	0.200	1.20	ND	ND		1	WG1204732
1,2-Dichloroethane	107-06-2	99	0.200	0.810	ND	ND		1	WG1204732
1,1-Dichloroethane	75-34-3	98	0.200	0.802	13.2	52.9		1	WG1204732
1,1-Dichloroethene	75-35-4	96.90	0.200	0.793	1.79	7.09		1	WG1204732
cis-1,2-Dichloroethene	156-59-2	96.90	5.00	19.8	979	3880		25	WG1205170
trans-1,2-Dichloroethene	156-60-5	96.90	5.00	19.8	50.9	202		25	WG1205170
1,2-Dichloropropane	78-87-5	113	0.200	0.924	ND	ND		1	WG1204732
cis-1,3-Dichloropropene	10061-01-5	111	0.200	0.908	ND	ND		1	WG1204732
trans-1,3-Dichloropropene	10061-02-6	111	0.200	0.908	ND	ND		1	WG1204732
1,4-Dioxane	123-91-1	88.10	0.200	0.721	ND	ND		1	WG1204732
Ethanol	64-17-5	46.10	0.630	1.19	2.67	5.04		1	WG1204732
Ethylbenzene	100-41-4	106	0.200	0.867	0.954	4.13		1	WG1204732
4-Ethyltoluene	622-96-8	120	0.200	0.982	2.01	9.84		1	WG1204732
Trichlorofluoromethane	75-69-4	137.40	0.200	1.12	ND	ND		1	WG1204732
Dichlorodifluoromethane	75-71-8	120.92	0.200	0.989	0.268	1.33		1	WG1204732
1,1,2-Trichlorotrifluoroethane	76-13-1	187.40	0.200	1.53	2.14	16.4		1	WG1204732
1,2-Dichlorotetrafluoroethane	76-14-2	171	0.200	1.40	ND	ND		1	WG1204732
Heptane	142-82-5	100	0.200	0.818	1.72	7.04		1	WG1204732
Hexachloro-1,3-butadiene	87-68-3	261	0.630	6.73	ND	ND		1	WG1204732
n-Hexane	110-54-3	86.20	0.200	0.705	3.87	13.6		1	WG1204732
Isopropylbenzene	98-82-8	120.20	0.200	0.983	ND	ND		1	WG1204732
Methylene Chloride	75-09-2	84.90	0.200	0.694	1.23	4.28		1	WG1204732
Methyl Butyl Ketone	591-78-6	100	1.25	5.11	ND	ND		1	WG1204732
2-Butanone (MEK)	78-93-3	72.10	1.25	3.69	ND	ND		1	WG1204732
4-Methyl-2-pentanone (MIBK)	108-10-1	100.10	1.25	5.12	ND	ND		1	WG1204732
Methyl methacrylate	80-62-6	100.12	0.200	0.819	ND	ND		1	WG1204732
MTBE	1634-04-4	88.10	0.200	0.721	1.02	3.67		1	WG1204732
Naphthalene	91-20-3	128	0.630	3.30	ND	ND		1	WG1204732
2-Propanol	67-63-0	60.10	1.25	3.07	ND	ND		1	WG1204732
Propene	115-07-1	42.10	0.400	0.689	31.0	53.4		1	WG1204732
Styrene	100-42-5	104	0.200	0.851	0.210	0.892		1	WG1204732
1,1,2,2-Tetrachloroethane	79-34-5	168	0.200	1.37	ND	ND		1	WG1204732
Tetrachloroethylene	127-18-4	166	20.0	136	3540	24000		100	WG1205170
Tetrahydrofuran	109-99-9	72.10	0.200	0.590	ND	ND		1	WG1204732
Toluene	108-88-3	92.10	0.200	0.753	4.97	18.7		1	WG1204732
1,2,4-Trichlorobenzene	120-82-1	181	0.630	4.66	ND	ND		1	WG1204732

Volatile Organic Compounds (MS) by Method TO-15

Analyte	CAS #	Mol. Wt.	RDL1 ppbv	RDL2 ug/m3	Result ppbv	Result ug/m3	Qualifier	Dilution	Batch
1,1,1-Trichloroethane	71-55-6	133	0.200	1.09	10.3	55.9		1	WG1204732
1,1,2-Trichloroethane	79-00-5	133	0.200	1.09	ND	ND		1	WG1204732
Trichloroethylene	79-01-6	131	5.00	26.8	834	4470		25	WG1205170
1,2,4-Trimethylbenzene	95-63-6	120	0.200	0.982	1.76	8.62		1	WG1204732
1,3,5-Trimethylbenzene	108-67-8	120	0.200	0.982	0.497	2.44		1	WG1204732
2,2,4-Trimethylpentane	540-84-1	114.22	0.200	0.934	3.72	17.4		1	WG1204732
Vinyl chloride	75-01-4	62.50	0.200	0.511	28.0	71.5		1	WG1204732
Vinyl Bromide	593-60-2	106.95	0.200	0.875	ND	ND		1	WG1204732
Vinyl acetate	108-05-4	86.10	0.200	0.704	ND	ND		1	WG1204732
m&p-Xylene	1330-20-7	106	0.400	1.73	3.36	14.6		1	WG1204732
o-Xylene	95-47-6	106	0.200	0.867	1.16	5.05		1	WG1204732
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*104*				WG1204732
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*85.6*				WG1205170
(S) 1,4-Bromofluorobenzene	*460-00-4*	*175*	*60.0-140*		*77.8*				WG1205170

Method Blank (MB)

(MB) R3364967-3 12/03/18 10:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Acetone	0.196	J	0.0569	1.25
Allyl Chloride	U		0.0546	0.200
Benzene	U		0.0460	0.200
Benzyl Chloride	U		0.0598	0.200
Bromodichloromethane	U		0.0436	0.200
Bromoform	U		0.0786	0.600
Bromomethane	U		0.0609	0.200
1,3-Butadiene	U		0.0563	2.00
Carbon disulfide	U		0.0544	0.200
Carbon tetrachloride	U		0.0585	0.200
Chlorobenzene	U		0.0601	0.200
Chloroethane	U		0.0489	0.200
Chloroform	U		0.0574	0.200
Chloromethane	U		0.0544	0.200
2-Chlorotoluene	U		0.0605	0.200
Cyclohexane	U		0.0534	0.200
Dibromochloromethane	U		0.0494	0.200
1,2-Dibromoethane	U		0.0185	0.200
1,2-Dichlorobenzene	U		0.0603	0.200
1,3-Dichlorobenzene	U		0.0597	0.200
1,4-Dichlorobenzene	U		0.0557	0.200
1,2-Dichloroethane	U		0.0616	0.200
1,1-Dichloroethane	U		0.0514	0.200
1,1-Dichloroethene	U		0.0490	0.200
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
1,2-Dichloropropane	U		0.0599	0.200
cis-1,3-Dichloropropene	U		0.0588	0.200
trans-1,3-Dichloropropene	U		0.0435	0.200
1,4-Dioxane	U		0.0554	0.200
Ethylbenzene	U		0.0506	0.200
4-Ethyltoluene	U		0.0666	0.200
Trichlorofluoromethane	U		0.0673	0.200
Dichlorodifluoromethane	U		0.0601	0.200
1,1,2-Trichlorotrifluoroethane	U		0.0687	0.200
1,2-Dichlorotetrafluoroethane	U		0.0458	0.200
Heptane	U		0.0626	0.200
Hexachloro-1,3-butadiene	U		0.0656	0.630
n-Hexane	U		0.0457	0.200
Isopropylbenzene	U		0.0563	0.200

Method Blank (MB)

(MB) R3364967-3 12/03/18 10:36

Analyte	MB Result ppbv	MB Qualifier	MB MDL ppbv	MB RDL ppbv
Methylene Chloride	U		0.0465	0.200
Methyl Butyl Ketone	U		0.0682	1.25
2-Butanone (MEK)	U		0.0493	1.25
4-Methyl-2-pentanone (MIBK)	U		0.0650	1.25
Methyl Methacrylate	U		0.0773	0.200
MTBE	U		0.0505	0.200
Naphthalene	U		0.154	0.630
2-Propanol	U		0.0882	1.25
Propene	U		0.0932	0.400
Styrene	U		0.0465	0.200
1,1,2,2-Tetrachloroethane	U		0.0576	0.200
Tetrahydrofuran	U		0.0508	0.200
Toluene	U		0.0499	0.200
1,2,4-Trichlorobenzene	U		0.148	0.630
1,1,1-Trichloroethane	U		0.0665	0.200
1,1,2-Trichloroethane	U		0.0287	0.200
1,2,4-Trimethylbenzene	U		0.0483	0.200
1,3,5-Trimethylbenzene	U		0.0631	0.200
2,2,4-Trimethylpentane	U		0.0456	0.200
Vinyl chloride	U		0.0457	0.200
Vinyl Bromide	U		0.0727	0.200
Vinyl acetate	U		0.0639	0.200
m&p-Xylene	U		0.0946	0.400
o-Xylene	U		0.0633	0.200
Ethanol	U		0.0832	0.630
(S) 1,4-Bromofluorobenzene	*96.4*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364967-1 12/03/18 09:03 • (LCSD) R3364967-2 12/03/18 09:49

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Ethanol	3.75	3.50	3.52	93.2	94.0	55.0-148			0.766	25
Propene	3.75	3.67	3.68	97.9	98.2	64.0-144			0.353	25
Dichlorodifluoromethane	3.75	3.70	3.60	98.6	96.1	64.0-139			2.55	25
1,2-Dichlorotetrafluoroethane	3.75	4.04	4.06	108	108	70.0-130			0.568	25
Chloromethane	3.75	3.63	3.63	96.8	96.7	70.0-130			0.0325	25
Vinyl chloride	3.75	3.80	3.89	101	104	70.0-130			2.33	25
1,3-Butadiene	3.75	3.68	3.71	98.1	98.9	70.0-130			0.847	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364967-1 12/03/18 09:03 • (LCSD) R3364967-2 12/03/18 09:49

Analyte	Spike Amount ppbv	LCS Result ppbv	LCSD Result ppbv	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromomethane	3.75	3.94	4.00	105	107	70.0-130			1.49	25
Chloroethane	3.75	3.83	3.87	102	103	70.0-130			0.950	25
Trichlorofluoromethane	3.75	4.05	4.08	108	109	70.0-130			0.840	25
1,1,2-Trichlorotrifluoroethane	3.75	4.00	4.02	107	107	70.0-130			0.643	25
1,1-Dichloroethene	3.75	3.91	3.93	104	105	70.0-130			0.614	25
1,1-Dichloroethane	3.75	3.97	3.99	106	106	70.0-130			0.414	25
Acetone	3.75	3.82	3.85	102	103	70.0-130			0.772	25
2-Propanol	3.75	3.90	3.91	104	104	70.0-139			0.241	25
Carbon disulfide	3.75	4.01	4.03	107	108	70.0-130			0.671	25
Methylene Chloride	3.75	3.53	3.54	94.1	94.5	70.0-130			0.474	25
MTBE	3.75	4.13	4.14	110	110	70.0-130			0.318	25
trans-1,2-Dichloroethene	3.75	3.96	3.99	106	106	70.0-130			0.679	25
n-Hexane	3.75	3.94	3.92	105	105	70.0-130			0.489	25
Vinyl acetate	3.75	3.82	3.81	102	101	70.0-130			0.339	25
Methyl Ethyl Ketone	3.75	4.16	4.11	111	110	70.0-130			1.37	25
cis-1,2-Dichloroethene	3.75	3.98	4.01	106	107	70.0-130			0.715	25
Chloroform	3.75	4.07	4.08	108	109	70.0-130			0.328	25
Cyclohexane	3.75	4.04	4.04	108	108	70.0-130			0.134	25
1,1,1-Trichloroethane	3.75	4.17	4.15	111	111	70.0-130			0.350	25
Carbon tetrachloride	3.75	4.14	4.14	110	110	70.0-130			0.0545	25
Benzene	3.75	4.01	4.04	107	108	70.0-130			0.759	25
1,2-Dichloroethane	3.75	4.01	4.04	107	108	70.0-130			0.749	25
Heptane	3.75	3.74	3.77	99.6	101	70.0-130			0.998	25
1,2-Dichloropropane	3.75	3.93	3.96	105	106	70.0-130			0.647	25
1,4-Dioxane	3.75	4.15	4.24	111	113	70.0-140			2.05	25
Bromodichloromethane	3.75	4.12	4.14	110	110	70.0-130			0.422	25
cis-1,3-Dichloropropene	3.75	4.18	4.19	111	112	70.0-130			0.296	25
4-Methyl-2-pentanone (MIBK)	3.75	3.94	3.96	105	106	70.0-139			0.661	25
Toluene	3.75	4.11	4.14	109	110	70.0-130			0.752	25
trans-1,3-Dichloropropene	3.75	4.26	4.27	114	114	70.0-130			0.370	25
1,1,2-Trichloroethane	3.75	4.05	4.05	108	108	70.0-130			0.203	25
Methyl Butyl Ketone	3.75	4.06	4.14	108	110	70.0-149			1.75	25
Dibromochloromethane	3.75	4.19	4.20	112	112	70.0-130			0.331	25
1,2-Dibromoethane	3.75	4.12	4.19	110	112	70.0-130			1.75	25
Chlorobenzene	3.75	4.13	4.16	110	111	70.0-130			0.830	25
Ethylbenzene	3.75	4.14	4.13	111	110	70.0-130			0.333	25
m&p-Xylene	7.50	8.13	8.24	108	110	70.0-130			1.28	25
o-Xylene	3.75	4.17	4.19	111	112	70.0-130			0.407	25
Styrene	3.75	4.31	4.33	115	116	70.0-130			0.572	25
Bromoform	3.75	4.25	4.26	113	113	70.0-130			0.224	25

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3364967-1 12/03/18 09:03 • (LCSD) R3364967-2 12/03/18 09:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
1,1,2,2-Tetrachloroethane	3.75	4.05	4.07	108	109	70.0-130			0.440	25
4-Ethyltoluene	3.75	4.23	4.25	113	113	70.0-130			0.359	25
1,3,5-Trimethylbenzene	3.75	4.25	4.25	113	113	70.0-130			0.0654	25
1,2,4-Trimethylbenzene	3.75	4.28	4.27	114	114	70.0-130			0.301	25
1,3-Dichlorobenzene	3.75	4.20	4.24	112	113	70.0-130			0.933	25
1,4-Dichlorobenzene	3.75	4.30	4.33	115	115	70.0-130			0.580	25
Benzyl Chloride	3.75	4.58	4.63	122	123	70.0-152			1.07	25
1,2-Dichlorobenzene	3.75	4.17	4.20	111	112	70.0-130			0.667	25
1,2,4-Trichlorobenzene	3.75	4.44	4.54	118	121	70.0-160			2.22	25
Hexachloro-1,3-butadiene	3.75	4.27	4.32	114	115	70.0-151			1.22	25
Naphthalene	3.75	4.49	4.59	120	122	70.0-159			2.24	25
Allyl Chloride	3.75	3.76	3.78	100	101	70.0-130			0.654	25
2-Chlorotoluene	3.75	4.18	4.21	111	112	70.0-130			0.817	25
Methyl Methacrylate	3.75	3.85	3.87	103	103	70.0-130			0.496	25
Tetrahydrofuran	3.75	3.68	3.69	98.1	98.4	70.0-137			0.239	25
2,2,4-Trimethylpentane	3.75	3.97	3.98	106	106	70.0-130			0.436	25
Vinyl Bromide	3.75	3.98	4.00	106	107	70.0-130			0.571	25
Isopropylbenzene	3.75	4.16	4.15	111	111	70.0-130			0.351	25
(S) 1,4-Bromofluorobenzene				*98.9*	*99.5*	*60.0-140*				

Method Blank (MB)

(MB) R3365167-3 12/04/18 10:56

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ppbv		ppbv	ppbv
cis-1,2-Dichloroethene	U		0.0389	0.200
trans-1,2-Dichloroethene	U		0.0464	0.200
Tetrachloroethylene	U		0.0497	0.200
Trichloroethylene	U		0.0545	0.200
(S) 1,4-Bromofluorobenzene	*76.0*			*60.0-140*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3365167-1 12/04/18 09:27 • (LCSD) R3365167-2 12/04/18 10:11

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	ppbv	ppbv	ppbv	%	%	%			%	%
trans-1,2-Dichloroethene	3.75	3.81	3.89	102	104	70.0-130			2.06	25
cis-1,2-Dichloroethene	3.75	3.83	3.81	102	102	70.0-130			0.606	25
Trichloroethylene	3.75	3.96	4.01	106	107	70.0-130			1.39	25
Tetrachloroethylene	3.75	4.30	4.36	115	116	70.0-130			1.40	25
(S) 1,4-Bromofluorobenzene				*94.8*	*96.1*	*60.0-140*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T 104704245-17-14
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

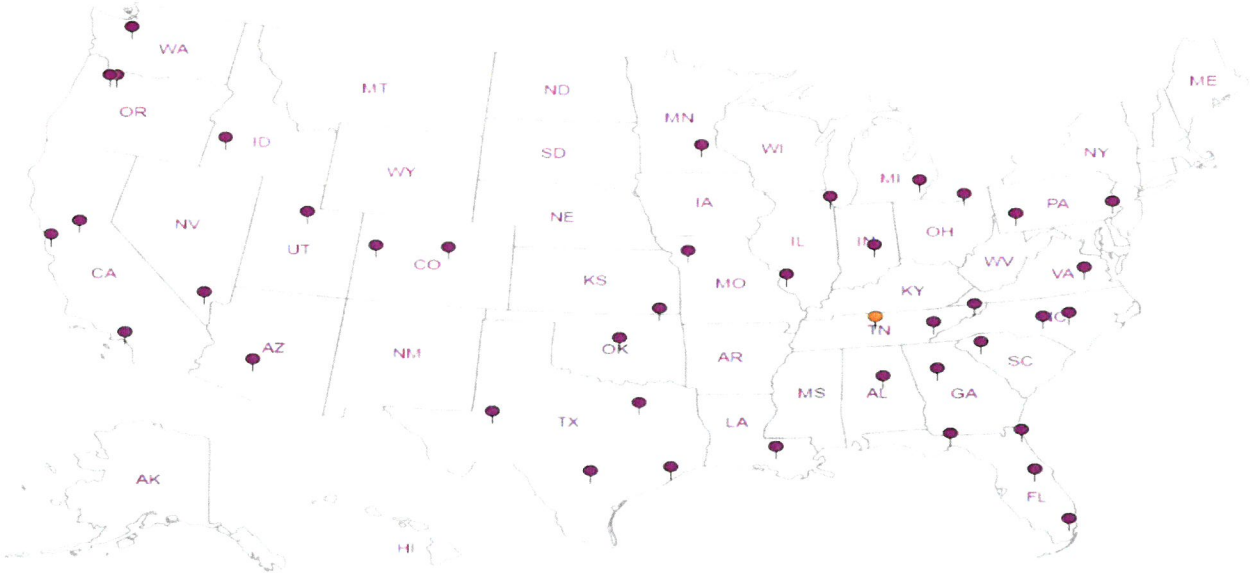
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Company Name/Address:
CCRG
116-C2 Edwards Ferry Rd.
Leesburg VA 20176

Billing Information:
PO Box 6070, 20178
Quote# CLECONLVA1002185

Analysis

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 1048381
M204

Report to: Samantha Kirk
Email To: Sam@clewdenincconsulting.com
Project Description: Amato Property
City/State Collected: Silver Spring
Phone: 703 771 8816
Fax:
Client Project # 18006
Lab Project #
Collected by (print): JWM
Site/Facility ID #
P.O. #
Collected by (signature):
Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%
Date Results Needed: Standard.
Email? ___No ___Yes
FAX? ___No ___Yes
Canister Pressure/Vacuum

Acctnum: CLECONLVA
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Sample Description	Can #	Date	Time	Initial	Final	Rem./Contaminant	Sample # (lab only)
B-7	Vapor 6L Summa	9418	11/28/18	7:54	26	3		01
B-8	"	9032	11/28/18	8:06	28	5		02
B-9		9461	11/28/18	8:16	30	7		03
B-10	"	7617	11/28/18	8:23	26	6		04

Remarks: 4 S10166 C 2223

Hold #

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
	11-28-18	4:26		
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Temp: Amb °C Bottles Received: 4
Relinquished by: (Signature)	Date	Time	Received for lab by: (Signature)	Date: 11/29/18 Time: 0925

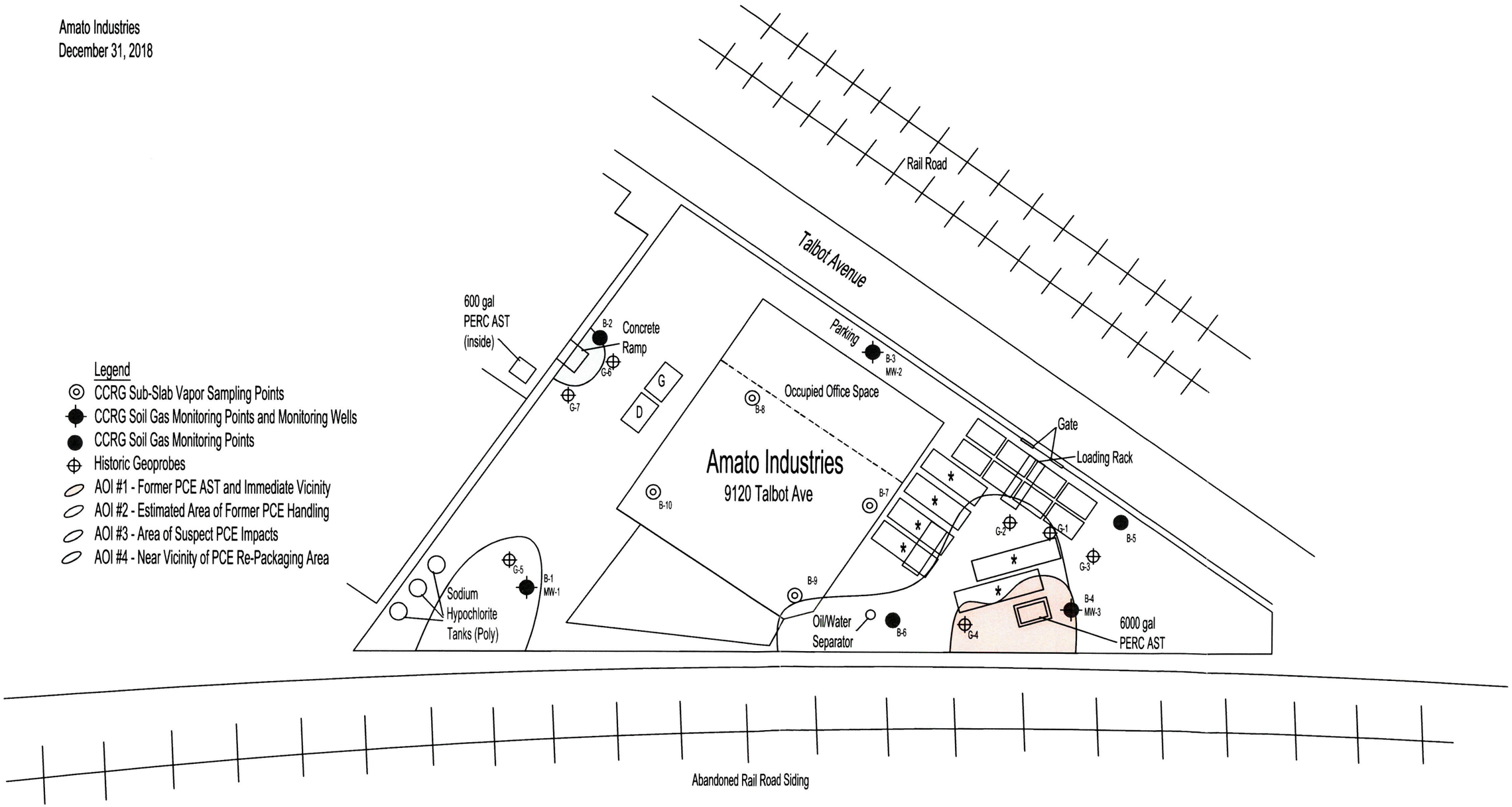
Condition: (lab use only) 1/3°
COC Seal Intact: ___Y ___N ✓NA
pH Checked:
NCF: X

Pace Analytical National Center for Testing & Innovation
Cooler Receipt Form

Client: Clearlua	SDG#	1048381	
Cooler Received/Opened On: 11/29/18	Temperature:	Amb	
Received By: Eric Struck			
Signature: EJ			

Receipt Check List	NP	Yes	No
COC Seal Present / Intact?	✓		
COC Signed / Accurate?		✓	
Bottles arrive intact?		✓	
Correct bottles used?		✓	
Sufficient volume sent?		✓	
If Applicable			
VOA Zero headspace?			
Preservation Correct / Checked?			

Amato Industries
December 31, 2018



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2/6/2019
Ms. Samantha Kirk
Clendenin Consulting & Remediation Group
116-C2 Edwards Ferry Road

Leesburg VA 20176

Project Name: Amato Industries
Project #: 18006
Workorder #: 1901425A

Dear Ms. Samantha Kirk

The following report includes the data for the above referenced project for sample(s) received on 1/24/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Rachel Selenis
Project Manager

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WORK ORDER #: 1901425A

Work Order Summary

CLIENT:	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176	**BILL TO:**	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176
PHONE:	703-771-8816	**P.O. #**	
FAX:	703-771-8825	**PROJECT #**	18006 Amato Industries
DATE RECEIVED:	01/24/2019	**CONTACT:**	Rachel Selenis
DATE COMPLETED:	02/06/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
04A	A-1	Modified TO-15	2.4 "Hg	4.7 psi
04B	A-1	Modified TO-15	2.4 "Hg	4.7 psi
05A	A-2	Modified TO-15	2 "Hg	5.1 psi
05B	A-2	Modified TO-15	2 "Hg	5.1 psi
06A	A-3	Modified TO-15	3.3 "Hg	4.9 psi
06B	A-3	Modified TO-15	3.3 "Hg	4.9 psi
07A	Lab Blank	Modified TO-15	NA	NA
07B	Lab Blank	Modified TO-15	NA	NA
08A	CCV	Modified TO-15	NA	NA
08B	CCV	Modified TO-15	NA	NA
09A	LCS	Modified TO-15	NA	NA
09AA	LCSD	Modified TO-15	NA	NA
09B	LCS	Modified TO-15	NA	NA
09BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 02/06/19

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Clendenin Consulting & Remediation Group
Workorder# 1901425A

Three 6 Liter Summa Canister (SIM Certified) samples were received on January 24, 2019. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

Sample identification for sample A-1 was not provided on the sample tag. Therefore the information on the Chain of Custody was used to process and report the sample.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in CCV analyses have not been flagged.

Due to poor sensitivity at the time of the Method Detection Limit (MDL) study, the reporting limit for Ethanol was raised from 0.50 ppbv to 1.0 ppbv.

The Relative Percent Difference (RPD) of the LCS/LCSD exceeded acceptance limits for 2-Propanol.

Dilution was performed on samples A-1, A-2 and A-3 due to the presence of high level target species.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-1

Lab ID#: 1901425A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.29	1.8	0.64	4.0
Ethanol	2.9	430 E	5.4	810 E
Acetone	1.4	110	3.4	270
2-Propanol	1.4	27 J0	3.5	65 J0
Methylene Chloride	0.58	0.91	2.0	3.2
Hexane	0.29	9.0	1.0	32
Cyclohexane	0.29	2.0	0.99	6.9
2,2,4-Trimethylpentane	1.4	8.2	6.7	38
Heptane	0.29	3.3	1.2	14
4-Methyl-2-pentanone	0.29	4.1	1.2	17
Cumene	0.29	0.38	1.4	1.8
Propylbenzene	0.29	1.7	1.4	8.4
4-Ethyltoluene	0.29	2.8	1.4	14
1,3,5-Trimethylbenzene	0.29	2.4	1.4	12
1,2,4-Trimethylbenzene	0.29	7.7	1.4	38

Client Sample ID: A-1

Lab ID#: 1901425A-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.058	0.48	0.28	2.4
Vinyl Chloride	0.029	0.060	0.074	0.15
1,1-Dichloroethene	0.029	0.052	0.11	0.20
1,1-Dichloroethane	0.058	0.11	0.23	0.46
cis-1,2-Dichloroethene	0.058	3.2	0.23	13
Chloroform	0.058	0.26	0.28	1.3
1,1,1-Trichloroethane	0.058	0.58	0.31	3.2
Carbon Tetrachloride	0.058	0.079	0.36	0.50
Benzene	0.14	3.1	0.46	9.8
Trichloroethene	0.058	3.8	0.31	20
Toluene	0.058	8.1	0.22	31
Tetrachloroethene	0.058	34	0.39	230
Ethyl Benzene	0.058	2.6	0.25	11

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-1

Lab ID#: 1901425A-04B

m,p-Xylene	0.12	8.5	0.50	37
o-Xylene	0.058	3.3	0.25	14

Client Sample ID: A-2

Lab ID#: 1901425A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.29	1.7	0.64	3.7
Ethanol	2.9	210 E	5.4	400 E
Acetone	1.4	200 E	3.4	490 E
2-Propanol	1.4	14 J0	3.5	34 J0
Hexane	0.29	10	1.0	36
Cyclohexane	0.29	2.1	0.99	7.2
2,2,4-Trimethylpentane	1.4	9.0	6.7	42
Heptane	0.29	3.6	1.2	15
4-Methyl-2-pentanone	0.29	9.5	1.2	39
Cumene	0.29	0.41	1.4	2.0
Propylbenzene	0.29	1.8	1.4	9.0
4-Ethyltoluene	0.29	3.0	1.4	15
1,3,5-Trimethylbenzene	0.29	2.8	1.4	14
1,2,4-Trimethylbenzene	0.29	9.1	1.4	45

Client Sample ID: A-2

Lab ID#: 1901425A-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.058	0.47	0.28	2.3
Vinyl Chloride	0.029	0.032	0.074	0.081
1,1-Dichloroethene	0.029	0.067	0.11	0.27
1,1-Dichloroethane	0.058	0.15	0.23	0.62
cis-1,2-Dichloroethene	0.058	4.2	0.23	16
Chloroform	0.058	0.34	0.28	1.7
1,1,1-Trichloroethane	0.058	0.78	0.31	4.3
Carbon Tetrachloride	0.058	0.096	0.36	0.60

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-2

Lab ID#: 1901425A-05B

Benzene	0.14	3.5	0.46	11
Trichloroethene	0.058	4.7	0.31	25
Toluene	0.058	10	0.22	39
Tetrachloroethene	0.058	38	0.39	260
Ethyl Benzene	0.058	3.6	0.25	16
m,p-Xylene	0.12	12	0.50	54
o-Xylene	0.058	4.5	0.25	19

Client Sample ID: A-3

Lab ID#: 1901425A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.30	2.1	0.66	4.7
Ethanol	3.0	180 E	5.6	330 E
Acetone	1.5	300 E	3.6	720 E
2-Propanol	1.5	12 J0	3.7	31 J0
Hexane	0.30	10	1.0	35
2-Butanone (Methyl Ethyl Ketone)	1.5	1.6	4.4	4.8
Cyclohexane	0.30	2.3	1.0	7.8
2,2,4-Trimethylpentane	1.5	8.9	7.0	42
Heptane	0.30	3.3	1.2	13
4-Methyl-2-pentanone	0.30	14	1.2	59
Cumene	0.30	0.50	1.5	2.5
Propylbenzene	0.30	2.1	1.5	10
4-Ethyltoluene	0.30	3.3	1.5	16
1,3,5-Trimethylbenzene	0.30	3.0	1.5	15
1,2,4-Trimethylbenzene	0.30	10	1.5	50

Client Sample ID: A-3

Lab ID#: 1901425A-06B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.060	0.47	0.30	2.3
Vinyl Chloride	0.030	0.033	0.077	0.084

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-3

Lab ID#: 1901425A-06B

1,1-Dichloroethene	0.030	0.071	0.12	0.28
1,1-Dichloroethane	0.060	0.17	0.24	0.70
cis-1,2-Dichloroethene	0.060	4.7	0.24	18
Chloroform	0.060	0.38	0.29	1.8
1,1,1-Trichloroethane	0.060	0.86	0.33	4.7
Carbon Tetrachloride	0.060	0.10	0.38	0.64
Benzene	0.15	3.5	0.48	11
Trichloroethene	0.060	5.2	0.32	28
Toluene	0.060	10	0.23	40
Tetrachloroethene	0.060	42	0.41	280
Ethyl Benzene	0.060	4.2	0.26	18
m,p-Xylene	0.12	14	0.52	62
o-Xylene	0.060	4.9	0.26	21

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Client Sample ID: A-1

Lab ID#: 1901425A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020111**	**Date of Collection: 1/22/19 3:30:00 PM**	
Dil. Factor:	**2.88**	**Date of Analysis: 2/1/19 04:34 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.29	1.8	0.64	4.0
Bromomethane	1.4	Not Detected	5.6	Not Detected
Freon 11	0.29	Not Detected	1.6	Not Detected
Ethanol	2.9	430 E	5.4	810 E
Freon 113	0.29	Not Detected	2.2	Not Detected
Acetone	1.4	110	3.4	270
2-Propanol	1.4	27 J0	3.5	65 J0
Carbon Disulfide	1.4	Not Detected	4.5	Not Detected
3-Chloropropene	1.4	Not Detected	4.5	Not Detected
Methylene Chloride	0.58	0.91	2.0	3.2
Hexane	0.29	9.0	1.0	32
2-Butanone (Methyl Ethyl Ketone)	1.4	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Cyclohexane	0.29	2.0	0.99	6.9
2,2,4-Trimethylpentane	1.4	8.2	6.7	38
Heptane	0.29	3.3	1.2	14
1,2-Dichloropropane	0.29	Not Detected	1.3	Not Detected
1,4-Dioxane	0.29	Not Detected	1.0	Not Detected
Bromodichloromethane	0.29	Not Detected	1.9	Not Detected
cis-1,3-Dichloropropene	0.29	Not Detected	1.3	Not Detected
4-Methyl-2-pentanone	0.29	4.1	1.2	17
trans-1,3-Dichloropropene	0.29	Not Detected	1.3	Not Detected
2-Hexanone	1.4	Not Detected	5.9	Not Detected
Dibromochloromethane	0.29	Not Detected	2.4	Not Detected
Chlorobenzene	0.29	Not Detected	1.3	Not Detected
Styrene	0.29	Not Detected	1.2	Not Detected
Bromoform	0.29	Not Detected	3.0	Not Detected
Cumene	0.29	0.38	1.4	1.8
Propylbenzene	0.29	1.7	1.4	8.4
4-Ethyltoluene	0.29	2.8	1.4	14
1,3,5-Trimethylbenzene	0.29	2.4	1.4	12
1,2,4-Trimethylbenzene	0.29	7.7	1.4	38
1,3-Dichlorobenzene	0.29	Not Detected	1.7	Not Detected
alpha-Chlorotoluene	0.29	Not Detected	1.5	Not Detected
1,2-Dichlorobenzene	0.29	Not Detected	1.7	Not Detected
1,2,4-Trichlorobenzene	1.4	Not Detected	11	Not Detected
Hexachlorobutadiene	1.4	Not Detected	15	Not Detected

E = Exceeds instrument calibration range.
J0 = Estimated value due to bias in the CCV.
Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: A-1

Lab ID#: 1901425A-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020111**	**Date of Collection: 1/22/19 3:30:00 PM**
Dil. Factor:	**2.88**	**Date of Analysis: 2/1/19 04:34 PM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: A-1

Lab ID#: 1901425A-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020111sim**	**Date of Collection:**	**1/22/19 3:30:00 PM**
Dil. Factor:	**2.88**	**Date of Analysis:**	**2/1/19 04:34 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.058	0.48	0.28	2.4
Freon 114	0.058	Not Detected	0.40	Not Detected
Chloromethane	1.4	Not Detected	3.0	Not Detected
Vinyl Chloride	0.029	0.060	0.074	0.15
Chloroethane	0.14	Not Detected	0.38	Not Detected
1,1-Dichloroethene	0.029	0.052	0.11	0.20
trans-1,2-Dichloroethene	0.29	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.29	Not Detected	1.0	Not Detected
1,1-Dichloroethane	0.058	0.11	0.23	0.46
cis-1,2-Dichloroethene	0.058	3.2	0.23	13
Chloroform	0.058	0.26	0.28	1.3
1,1,1-Trichloroethane	0.058	0.58	0.31	3.2
Carbon Tetrachloride	0.058	0.079	0.36	0.50
Benzene	0.14	3.1	0.46	9.8
1,2-Dichloroethane	0.058	Not Detected	0.23	Not Detected
Trichloroethene	0.058	3.8	0.31	20
Toluene	0.058	8.1	0.22	31
1,1,2-Trichloroethane	0.058	Not Detected	0.31	Not Detected
Tetrachloroethene	0.058	34	0.39	230
1,2-Dibromoethane (EDB)	0.058	Not Detected	0.44	Not Detected
Ethyl Benzene	0.058	2.6	0.25	11
m,p-Xylene	0.12	8.5	0.50	37
o-Xylene	0.058	3.3	0.25	14
1,1,2,2-Tetrachloroethane	0.058	Not Detected	0.40	Not Detected
1,4-Dichlorobenzene	0.058	Not Detected	0.35	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: A-2

Lab ID#: 1901425A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020112**	**Date of Collection: 1/22/19 3:45:00 PM**	
Dil. Factor:	**2.88**	**Date of Analysis: 2/1/19 05:12 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.29	1.7	0.64	3.7
Bromomethane	1.4	Not Detected	5.6	Not Detected
Freon 11	0.29	Not Detected	1.6	Not Detected
Ethanol	2.9	210 E	5.4	400 E
Freon 113	0.29	Not Detected	2.2	Not Detected
Acetone	1.4	200 E	3.4	490 E
2-Propanol	1.4	14 J0	3.5	34 J0
Carbon Disulfide	1.4	Not Detected	4.5	Not Detected
3-Chloropropene	1.4	Not Detected	4.5	Not Detected
Methylene Chloride	0.58	Not Detected	2.0	Not Detected
Hexane	0.29	10	1.0	36
2-Butanone (Methyl Ethyl Ketone)	1.4	Not Detected	4.2	Not Detected
Tetrahydrofuran	1.4	Not Detected	4.2	Not Detected
Cyclohexane	0.29	2.1	0.99	7.2
2,2,4-Trimethylpentane	1.4	9.0	6.7	42
Heptane	0.29	3.6	1.2	15
1,2-Dichloropropane	0.29	Not Detected	1.3	Not Detected
1,4-Dioxane	0.29	Not Detected	1.0	Not Detected
Bromodichloromethane	0.29	Not Detected	1.9	Not Detected
cis-1,3-Dichloropropene	0.29	Not Detected	1.3	Not Detected
4-Methyl-2-pentanone	0.29	9.5	1.2	39
trans-1,3-Dichloropropene	0.29	Not Detected	1.3	Not Detected
2-Hexanone	1.4	Not Detected	5.9	Not Detected
Dibromochloromethane	0.29	Not Detected	2.4	Not Detected
Chlorobenzene	0.29	Not Detected	1.3	Not Detected
Styrene	0.29	Not Detected	1.2	Not Detected
Bromoform	0.29	Not Detected	3.0	Not Detected
Cumene	0.29	0.41	1.4	2.0
Propylbenzene	0.29	1.8	1.4	9.0
4-Ethyltoluene	0.29	3.0	1.4	15
1,3,5-Trimethylbenzene	0.29	2.8	1.4	14
1,2,4-Trimethylbenzene	0.29	9.1	1.4	45
1,3-Dichlorobenzene	0.29	Not Detected	1.7	Not Detected
alpha-Chlorotoluene	0.29	Not Detected	1.5	Not Detected
1,2-Dichlorobenzene	0.29	Not Detected	1.7	Not Detected
1,2,4-Trichlorobenzene	1.4	Not Detected	11	Not Detected
Hexachlorobutadiene	1.4	Not Detected	15	Not Detected

E = Exceeds instrument calibration range.
J0 = Estimated value due to bias in the CCV.
Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: A-2

Lab ID#: 1901425A-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020112**	**Date of Collection:**	**1/22/19 3:45:00 PM**
Dil. Factor:	**2.88**	**Date of Analysis:**	**2/1/19 05:12 PM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: A-2

Lab ID#: 1901425A-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020112sim**	**Date of Collection:**	**1/22/19 3:45:00 PM**
Dil. Factor:	**2.88**	**Date of Analysis:**	**2/1/19 05:12 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.058	0.47	0.28	2.3
Freon 114	0.058	Not Detected	0.40	Not Detected
Chloromethane	1.4	Not Detected	3.0	Not Detected
Vinyl Chloride	0.029	0.032	0.074	0.081
Chloroethane	0.14	Not Detected	0.38	Not Detected
1,1-Dichloroethene	0.029	0.067	0.11	0.27
trans-1,2-Dichloroethene	0.29	Not Detected	1.1	Not Detected
Methyl tert-butyl ether	0.29	Not Detected	1.0	Not Detected
1,1-Dichloroethane	0.058	0.15	0.23	0.62
cis-1,2-Dichloroethene	0.058	4.2	0.23	16
Chloroform	0.058	0.34	0.28	1.7
1,1,1-Trichloroethane	0.058	0.78	0.31	4.3
Carbon Tetrachloride	0.058	0.096	0.36	0.60
Benzene	0.14	3.5	0.46	11
1,2-Dichloroethane	0.058	Not Detected	0.23	Not Detected
Trichloroethene	0.058	4.7	0.31	25
Toluene	0.058	10	0.22	39
1,1,2-Trichloroethane	0.058	Not Detected	0.31	Not Detected
Tetrachloroethene	0.058	38	0.39	260
1,2-Dibromoethane (EDB)	0.058	Not Detected	0.44	Not Detected
Ethyl Benzene	0.058	3.6	0.25	16
m,p-Xylene	0.12	12	0.50	54
o-Xylene	0.058	4.5	0.25	19
1,1,2,2-Tetrachloroethane	0.058	Not Detected	0.40	Not Detected
1,4-Dichlorobenzene	0.058	Not Detected	0.35	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: A-3

Lab ID#: 1901425A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020113**	**Date of Collection: 1/22/19 3:50:00 PM**	
Dil. Factor:	**3.00**	**Date of Analysis: 2/1/19 05:50 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.30	2.1	0.66	4.7
Bromomethane	1.5	Not Detected	5.8	Not Detected
Freon 11	0.30	Not Detected	1.7	Not Detected
Ethanol	3.0	180 E	5.6	330 E
Freon 113	0.30	Not Detected	2.3	Not Detected
Acetone	1.5	300 E	3.6	720 E
2-Propanol	1.5	12 J0	3.7	31 J0
Carbon Disulfide	1.5	Not Detected	4.7	Not Detected
3-Chloropropene	1.5	Not Detected	4.7	Not Detected
Methylene Chloride	0.60	Not Detected	2.1	Not Detected
Hexane	0.30	10	1.0	35
2-Butanone (Methyl Ethyl Ketone)	1.5	1.6	4.4	4.8
Tetrahydrofuran	1.5	Not Detected	4.4	Not Detected
Cyclohexane	0.30	2.3	1.0	7.8
2,2,4-Trimethylpentane	1.5	8.9	7.0	42
Heptane	0.30	3.3	1.2	13
1,2-Dichloropropane	0.30	Not Detected	1.4	Not Detected
1,4-Dioxane	0.30	Not Detected	1.1	Not Detected
Bromodichloromethane	0.30	Not Detected	2.0	Not Detected
cis-1,3-Dichloropropene	0.30	Not Detected	1.4	Not Detected
4-Methyl-2-pentanone	0.30	14	1.2	59
trans-1,3-Dichloropropene	0.30	Not Detected	1.4	Not Detected
2-Hexanone	1.5	Not Detected	6.1	Not Detected
Dibromochloromethane	0.30	Not Detected	2.6	Not Detected
Chlorobenzene	0.30	Not Detected	1.4	Not Detected
Styrene	0.30	Not Detected	1.3	Not Detected
Bromoform	0.30	Not Detected	3.1	Not Detected
Cumene	0.30	0.50	1.5	2.5
Propylbenzene	0.30	2.1	1.5	10
4-Ethyltoluene	0.30	3.3	1.5	16
1,3,5-Trimethylbenzene	0.30	3.0	1.5	15
1,2,4-Trimethylbenzene	0.30	10	1.5	50
1,3-Dichlorobenzene	0.30	Not Detected	1.8	Not Detected
alpha-Chlorotoluene	0.30	Not Detected	1.6	Not Detected
1,2-Dichlorobenzene	0.30	Not Detected	1.8	Not Detected
1,2,4-Trichlorobenzene	1.5	Not Detected	11	Not Detected
Hexachlorobutadiene	1.5	Not Detected	16	Not Detected

E = Exceeds instrument calibration range.
J0 = Estimated value due to bias in the CCV.
Container Type: 6 Liter Summa Canister (SIM Certified)

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Client Sample ID: A-3

Lab ID#: 1901425A-06A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020113**	**Date of Collection:**	**1/22/19 3:50:00 PM**
Dil. Factor:	**3.00**	**Date of Analysis:**	**2/1/19 05:50 PM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: A-3

Lab ID#: 1901425A-06B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020113sim**	**Date of Collection:**	**1/22/19 3:50:00 PM**
Dil. Factor:	**3.00**	**Date of Analysis:**	**2/1/19 05:50 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.060	0.47	0.30	2.3
Freon 114	0.060	Not Detected	0.42	Not Detected
Chloromethane	1.5	Not Detected	3.1	Not Detected
Vinyl Chloride	0.030	0.033	0.077	0.084
Chloroethane	0.15	Not Detected	0.40	Not Detected
1,1-Dichloroethene	0.030	0.071	0.12	0.28
trans-1,2-Dichloroethene	0.30	Not Detected	1.2	Not Detected
Methyl tert-butyl ether	0.30	Not Detected	1.1	Not Detected
1,1-Dichloroethane	0.060	0.17	0.24	0.70
cis-1,2-Dichloroethene	0.060	4.7	0.24	18
Chloroform	0.060	0.38	0.29	1.8
1,1,1-Trichloroethane	0.060	0.86	0.33	4.7
Carbon Tetrachloride	0.060	0.10	0.38	0.64
Benzene	0.15	3.5	0.48	11
1,2-Dichloroethane	0.060	Not Detected	0.24	Not Detected
Trichloroethene	0.060	5.2	0.32	28
Toluene	0.060	10	0.23	40
1,1,2-Trichloroethane	0.060	Not Detected	0.33	Not Detected
Tetrachloroethene	0.060	42	0.41	280
1,2-Dibromoethane (EDB)	0.060	Not Detected	0.46	Not Detected
Ethyl Benzene	0.060	4.2	0.26	18
m,p-Xylene	0.12	14	0.52	62
o-Xylene	0.060	4.9	0.26	21
1,1,2,2-Tetrachloroethane	0.060	Not Detected	0.41	Not Detected
1,4-Dichlorobenzene	0.060	Not Detected	0.36	Not Detected

Container Type: 6 Liter Summa Canister (SIM Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1901425A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 12:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	1.0	Not Detected	1.9	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1901425A-07A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 12:00 PM**	

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1901425A-07B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020106sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 12:00 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.020	Not Detected	0.075	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: CCV

Lab ID#: 1901425A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020102**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 09:12 AM**

Compound	**%Recovery**
1,3-Butadiene	93
Bromomethane	119
Freon 11	106
Ethanol	127
Freon 113	98
Acetone	117
2-Propanol	139 Q
Carbon Disulfide	98
3-Chloropropene	129
Methylene Chloride	92
Hexane	107
2-Butanone (Methyl Ethyl Ketone)	93
Tetrahydrofuran	101
Cyclohexane	89
2,2,4-Trimethylpentane	87
Heptane	100
1,2-Dichloropropane	98
1,4-Dioxane	86
Bromodichloromethane	97
cis-1,3-Dichloropropene	103
4-Methyl-2-pentanone	116
trans-1,3-Dichloropropene	108
2-Hexanone	114
Dibromochloromethane	96
Chlorobenzene	95
Styrene	100
Bromoform	100
Cumene	96
Propylbenzene	88
4-Ethyltoluene	90
1,3,5-Trimethylbenzene	100
1,2,4-Trimethylbenzene	108
1,3-Dichlorobenzene	82
alpha-Chlorotoluene	101
1,2-Dichlorobenzene	84
1,2,4-Trichlorobenzene	106
Hexachlorobutadiene	93

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**

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Client Sample ID: CCV

Lab ID#: 1901425A-08A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 09:12 AM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	93	70-130

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Client Sample ID: CCV

Lab ID#: 1901425A-08B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020102sim**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 09:12 AM**

Compound	%Recovery
Freon 12	106
Freon 114	106
Chloromethane	102
Vinyl Chloride	93
Chloroethane	95
1,1-Dichloroethene	105
trans-1,2-Dichloroethene	92
Methyl tert-butyl ether	119
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	94
Chloroform	92
1,1,1-Trichloroethane	98
Carbon Tetrachloride	96
Benzene	89
1,2-Dichloroethane	86
Trichloroethene	87
Toluene	89
1,1,2-Trichloroethane	91
Tetrachloroethene	91
1,2-Dibromoethane (EDB)	97
Ethyl Benzene	105
m,p-Xylene	104
o-Xylene	106
1,1,2,2-Tetrachloroethane	84
1,4-Dichlorobenzene	71

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCS

Lab ID#: 1901425A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 10:02 AM**	

Compound	**%Recovery**	**Method Limits**
1,3-Butadiene	100	70-130
Bromomethane	139 Q	70-130
Freon 11	112	70-130
Ethanol	144 Q	70-130
Freon 113	104	70-130
Acetone	114	70-130
2-Propanol	123	70-130
Carbon Disulfide	111	70-130
3-Chloropropene	122	70-130
Methylene Chloride	98	70-130
Hexane	119	70-130
2-Butanone (Methyl Ethyl Ketone)	104	70-130
Tetrahydrofuran	119	70-130
Cyclohexane	98	70-130
2,2,4-Trimethylpentane	94	70-130
Heptane	104	70-130
1,2-Dichloropropane	104	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	114	70-130
4-Methyl-2-pentanone	128	70-130
trans-1,3-Dichloropropene	111	70-130
2-Hexanone	136 Q	70-130
Dibromochloromethane	104	70-130
Chlorobenzene	102	70-130
Styrene	109	70-130
Bromoform	108	70-130
Cumene	102	70-130
Propylbenzene	93	70-130
4-Ethyltoluene	97	70-130
1,3,5-Trimethylbenzene	110	70-130
1,2,4-Trimethylbenzene	119	70-130
1,3-Dichlorobenzene	88	70-130
alpha-Chlorotoluene	111	70-130
1,2-Dichlorobenzene	94	70-130
1,2,4-Trichlorobenzene	117	70-130
Hexachlorobutadiene	98	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**

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Client Sample ID: LCS

Lab ID#: 1901425A-09A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 10:02 AM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	94	70-130

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Client Sample ID: LCSD

Lab ID#: 1901425A-09AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 10:45 AM**	

Compound	**%Recovery**	**Method Limits**
1,3-Butadiene	105	70-130
Bromomethane	140 Q	70-130
Freon 11	113	70-130
Ethanol	148 Q	70-130
Freon 113	107	70-130
Acetone	125	70-130
2-Propanol	159 Q	70-130
Carbon Disulfide	111	70-130
3-Chloropropene	126	70-130
Methylene Chloride	99	70-130
Hexane	124	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
Tetrahydrofuran	116	70-130
Cyclohexane	98	70-130
2,2,4-Trimethylpentane	98	70-130
Heptane	111	70-130
1,2-Dichloropropane	106	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	117	70-130
4-Methyl-2-pentanone	134 Q	70-130
trans-1,3-Dichloropropene	106	70-130
2-Hexanone	133 Q	70-130
Dibromochloromethane	98	70-130
Chlorobenzene	102	70-130
Styrene	116	70-130
Bromoform	106	70-130
Cumene	108	70-130
Propylbenzene	99	70-130
4-Ethyltoluene	102	70-130
1,3,5-Trimethylbenzene	111	70-130
1,2,4-Trimethylbenzene	118	70-130
1,3-Dichlorobenzene	94	70-130
alpha-Chlorotoluene	117	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	114	70-130
Hexachlorobutadiene	100	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**

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Client Sample ID: LCSD

Lab ID#: 1901425A-09AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 10:45 AM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	106	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCS

Lab ID#: 1901425A-09B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020103sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 10:02 AM**	

Compound	%Recovery	Method Limits
Freon 12	110	70-130
Freon 114	112	70-130
Chloromethane	108	70-130
Vinyl Chloride	102	70-130
Chloroethane	100	70-130
1,1-Dichloroethene	102	70-130
trans-1,2-Dichloroethene	105	70-130
Methyl tert-butyl ether	124	70-130
1,1-Dichloroethane	100	70-130
cis-1,2-Dichloroethene	91	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	102	70-130
Carbon Tetrachloride	84	70-130
Benzene	92	70-130
1,2-Dichloroethane	88	70-130
Trichloroethene	92	70-130
Toluene	93	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	94	70-130
1,2-Dibromoethane (EDB)	101	70-130
Ethyl Benzene	109	70-130
m,p-Xylene	107	70-130
o-Xylene	111	70-130
1,1,2,2-Tetrachloroethane	90	70-130
1,4-Dichlorobenzene	76	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: LCSD

Lab ID#: 1901425A-09BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v020104sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/1/19 10:45 AM**	

Compound	%Recovery	Method Limits
Freon 12	111	70-130
Freon 114	109	70-130
Chloromethane	106	70-130
Vinyl Chloride	106	70-130
Chloroethane	102	70-130
1,1-Dichloroethene	101	70-130
trans-1,2-Dichloroethene	105	70-130
Methyl tert-butyl ether	125	70-130
1,1-Dichloroethane	100	70-130
cis-1,2-Dichloroethene	90	70-130
Chloroform	95	70-130
1,1,1-Trichloroethane	102	70-130
Carbon Tetrachloride	84	70-130
Benzene	92	70-130
1,2-Dichloroethane	87	70-130
Trichloroethene	92	70-130
Toluene	96	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	94	70-130
1,2-Dibromoethane (EDB)	100	70-130
Ethyl Benzene	113	70-130
m,p-Xylene	113	70-130
o-Xylene	119	70-130
1,1,2,2-Tetrachloroethane	93	70-130
1,4-Dichlorobenzene	82	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

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2/6/2019
Ms. Samantha Kirk
Clendenin Consulting & Remediation Group
116-C2 Edwards Ferry Road

Leesburg VA 20176

Project Name: Amato Industries
Project #: 18006
Workorder #: 1901425B

Dear Ms. Samantha Kirk

The following report includes the data for the above referenced project for sample(s) received on 1/24/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Rachel Selenis
Project Manager

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WORK ORDER #: 1901425B

Work Order Summary

CLIENT:	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176	**BILL TO:**	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176
PHONE:	703-771-8816	**P.O. #**	
FAX:	703-771-8825	**PROJECT #**	18006 Amato Industries
DATE RECEIVED:	01/24/2019	**CONTACT:**	Rachel Selenis
DATE COMPLETED:	02/06/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	B-11	Modified TO-15	0.6 psi	15.5 psi
02A	B-12	Modified TO-15	0.3 psi	15.7 psi
03A	B-13	Modified TO-15	0.8 psi	15.8 psi
04A	Lab Blank	Modified TO-15	NA	NA
04B	Lab Blank	Modified TO-15	NA	NA
04C	Lab Blank	Modified TO-15	NA	NA
05A	CCV	Modified TO-15	NA	NA
05B	CCV	Modified TO-15	NA	NA
05C	CCV	Modified TO-15	NA	NA
06A	LCS	Modified TO-15	NA	NA
06AA	LCSD	Modified TO-15	NA	NA
06B	LCS	Modified TO-15	NA	NA
06BB	LCSD	Modified TO-15	NA	NA
06C	LCS	Modified TO-15	NA	NA
06CC	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes DATE: 02/06/19

Technical Director

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15
Clendenin Consulting & Remediation Group
Workorder# 1901425B

Three 1 Liter Summa Canister (100% Certified) samples were received on January 24, 2019. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the full scan mode.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	*TO-15*	*ATL Modifications*
Initial Calibration	</=30% RSD with 2 compounds allowed out to < 40% RSD	</=30% RSD with 4 compounds allowed out to < 40% RSD
Blank and standards	Zero Air	UHP Nitrogen provides a higher purity gas matrix than zero air

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Samples B-11 and B-12 were transferred from Low Level analysis to full scan TO-15 due to high levels of target compounds.

Dilution was performed on samples B-11 and B-12 due to the presence of high level target species.

Dilution was performed on sample B-13 due to the presence of high level non-target species.

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

The recovery of surrogate 1,2-Dichloroethane-d4 in sample B-12 was outside laboratory control limits due to high level hydrocarbon matrix interference. The surrogate recovery is flagged.

The reporting limit for 4-Methyl-2-pentanone and alpha-Chlorotoluene was raised from 5.0 ppbv to 20 ppbv for samples with file names beginnig with "14" due to anomalous linearity in the Initial Calibration.

The Relative Percent Difference (RPD) of the LCS/LCSD analyzed on 2/5/19 exceeded acceptance limits for Bromomethane.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: B-11

Lab ID#: 1901425B-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	33	2500	84	6300
trans-1,2-Dichloroethene	33	71	130	280
Hexane	33	330	120	1200
cis-1,2-Dichloroethene	33	1300	130	5200
Cyclohexane	33	370	110	1300
2,2,4-Trimethylpentane	33	3100	150	14000
Heptane	33	140	130	560

Client Sample ID: B-12

Lab ID#: 1901425B-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	510	150000 E	1800	520000 E
Cyclohexane	510	57000	1800	200000
2,2,4-Trimethylpentane	510	880000 E	2400	4100000 E
Benzene	510	8800	1600	28000
Heptane	510	79000	2100	320000
m,p-Xylene	510	1000	2200	4500

Client Sample ID: B-13

Lab ID#: 1901425B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	9.8	20	23	48
Chloroform	2.0	2.4	9.6	12
Trichloroethene	2.0	5.0	10	27
Toluene	2.0	4.1	7.4	15
Tetrachloroethene	2.0	56	13	380
m,p-Xylene	2.0	2.2	8.6	9.6

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Client Sample ID: B-11

Lab ID#: 1901425B-01A

EPA METHOD TO-15 GC/MS

File Name:	**14020515**	**Date of Collection:**	**1/22/19 11:37:00 AM**
Dil. Factor:	**6.56**	**Date of Analysis:**	**2/5/19 03:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	33	Not Detected	160	Not Detected
Freon 114	33	Not Detected	230	Not Detected
Chloromethane	130	Not Detected	270	Not Detected
Vinyl Chloride	33	2500	84	6300
1,3-Butadiene	33	Not Detected	72	Not Detected
Bromomethane	130	Not Detected	510	Not Detected
Chloroethane	130	Not Detected	350	Not Detected
Freon 11	33	Not Detected	180	Not Detected
Ethanol	130	Not Detected	250	Not Detected
Freon 113	33	Not Detected	250	Not Detected
1,1-Dichloroethene	33	Not Detected	130	Not Detected
Acetone	130	Not Detected	310	Not Detected
2-Propanol	130	Not Detected	320	Not Detected
Carbon Disulfide	130	Not Detected	410	Not Detected
3-Chloropropene	130	Not Detected	410	Not Detected
Methylene Chloride	130	Not Detected	460	Not Detected
Methyl tert-butyl ether	33	Not Detected	120	Not Detected
trans-1,2-Dichloroethene	33	71	130	280
Hexane	33	330	120	1200
1,1-Dichloroethane	33	Not Detected	130	Not Detected
2-Butanone (Methyl Ethyl Ketone)	130	Not Detected	390	Not Detected
cis-1,2-Dichloroethene	33	1300	130	5200
Tetrahydrofuran	33	Not Detected	97	Not Detected
Chloroform	33	Not Detected	160	Not Detected
1,1,1-Trichloroethane	33	Not Detected	180	Not Detected
Cyclohexane	33	370	110	1300
Carbon Tetrachloride	33	Not Detected	210	Not Detected
2,2,4-Trimethylpentane	33	3100	150	14000
Benzene	33	Not Detected	100	Not Detected
1,2-Dichloroethane	33	Not Detected	130	Not Detected
Heptane	33	140	130	560
Trichloroethene	33	Not Detected	180	Not Detected
1,2-Dichloropropane	33	Not Detected	150	Not Detected
1,4-Dioxane	130	Not Detected	470	Not Detected
Bromodichloromethane	33	Not Detected	220	Not Detected
cis-1,3-Dichloropropene	33	Not Detected	150	Not Detected
4-Methyl-2-pentanone	130	Not Detected	540	Not Detected
Toluene	33	Not Detected	120	Not Detected
trans-1,3-Dichloropropene	33	Not Detected	150	Not Detected
1,1,2-Trichloroethane	33	Not Detected	180	Not Detected
Tetrachloroethene	33	Not Detected	220	Not Detected
2-Hexanone	130	Not Detected	540	Not Detected

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Client Sample ID: B-11

Lab ID#: 1901425B-01A

EPA METHOD TO-15 GC/MS

File Name:	**14020515**	**Date of Collection:**	**1/22/19 11:37:00 AM**
Dil. Factor:	**6.56**	**Date of Analysis:**	**2/5/19 03:20 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	33	Not Detected	280	Not Detected
1,2-Dibromoethane (EDB)	33	Not Detected	250	Not Detected
Chlorobenzene	33	Not Detected	150	Not Detected
Ethyl Benzene	33	Not Detected	140	Not Detected
m,p-Xylene	33	Not Detected	140	Not Detected
o-Xylene	33	Not Detected	140	Not Detected
Styrene	33	Not Detected	140	Not Detected
Bromoform	33	Not Detected	340	Not Detected
Cumene	33	Not Detected	160	Not Detected
1,1,2,2-Tetrachloroethane	33	Not Detected	220	Not Detected
Propylbenzene	33	Not Detected	160	Not Detected
4-Ethyltoluene	33	Not Detected	160	Not Detected
1,3,5-Trimethylbenzene	33	Not Detected	160	Not Detected
1,2,4-Trimethylbenzene	33	Not Detected	160	Not Detected
1,3-Dichlorobenzene	33	Not Detected	200	Not Detected
1,4-Dichlorobenzene	33	Not Detected	200	Not Detected
alpha-Chlorotoluene	130	Not Detected	680	Not Detected
1,2-Dichlorobenzene	33	Not Detected	200	Not Detected
1,2,4-Trichlorobenzene	130	Not Detected	970	Not Detected
Hexachlorobutadiene	130	Not Detected	1400	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: B-12

Lab ID#: 1901425B-02A

EPA METHOD TO-15 GC/MS

File Name:	**14020418**	**Date of Collection:**	**1/22/19 11:27:00 AM**
Dil. Factor:	**102**	**Date of Analysis:**	**2/4/19 05:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	510	Not Detected	2500	Not Detected
Freon 114	510	Not Detected	3600	Not Detected
Chloromethane	2000	Not Detected	4200	Not Detected
Vinyl Chloride	510	Not Detected	1300	Not Detected
1,3-Butadiene	510	Not Detected	1100	Not Detected
Bromomethane	2000	Not Detected	7900	Not Detected
Chloroethane	2000	Not Detected	5400	Not Detected
Freon 11	510	Not Detected	2900	Not Detected
Ethanol	2000	Not Detected	3800	Not Detected
Freon 113	510	Not Detected	3900	Not Detected
1,1-Dichloroethene	510	Not Detected	2000	Not Detected
Acetone	2000	Not Detected	4800	Not Detected
2-Propanol	2000	Not Detected	5000	Not Detected
Carbon Disulfide	2000	Not Detected	6400	Not Detected
3-Chloropropene	2000	Not Detected	6400	Not Detected
Methylene Chloride	2000	Not Detected	7100	Not Detected
Methyl tert-butyl ether	510	Not Detected	1800	Not Detected
trans-1,2-Dichloroethene	510	Not Detected	2000	Not Detected
Hexane	510	150000 E	1800	520000 E
1,1-Dichloroethane	510	Not Detected	2100	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2000	Not Detected	6000	Not Detected
cis-1,2-Dichloroethene	510	Not Detected	2000	Not Detected
Tetrahydrofuran	510	Not Detected	1500	Not Detected
Chloroform	510	Not Detected	2500	Not Detected
1,1,1-Trichloroethane	510	Not Detected	2800	Not Detected
Cyclohexane	510	57000	1800	200000
Carbon Tetrachloride	510	Not Detected	3200	Not Detected
2,2,4-Trimethylpentane	510	880000 E	2400	4100000 E
Benzene	510	8800	1600	28000
1,2-Dichloroethane	510	Not Detected	2100	Not Detected
Heptane	510	79000	2100	320000
Trichloroethene	510	Not Detected	2700	Not Detected
1,2-Dichloropropane	510	Not Detected	2400	Not Detected
1,4-Dioxane	2000	Not Detected	7400	Not Detected
Bromodichloromethane	510	Not Detected	3400	Not Detected
cis-1,3-Dichloropropene	510	Not Detected	2300	Not Detected
4-Methyl-2-pentanone	2000	Not Detected	8400	Not Detected
Toluene	510	Not Detected	1900	Not Detected
trans-1,3-Dichloropropene	510	Not Detected	2300	Not Detected
1,1,2-Trichloroethane	510	Not Detected	2800	Not Detected
Tetrachloroethene	510	Not Detected	3400	Not Detected
2-Hexanone	2000	Not Detected	8400	Not Detected

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Client Sample ID: B-12

Lab ID#: 1901425B-02A

EPA METHOD TO-15 GC/MS

File Name:	**14020418**	**Date of Collection:**	**1/22/19 11:27:00 AM**
Dil. Factor:	**102**	**Date of Analysis:**	**2/4/19 05:23 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	510	Not Detected	4300	Not Detected
1,2-Dibromoethane (EDB)	510	Not Detected	3900	Not Detected
Chlorobenzene	510	Not Detected	2300	Not Detected
Ethyl Benzene	510	Not Detected	2200	Not Detected
m,p-Xylene	510	1000	2200	4500
o-Xylene	510	Not Detected	2200	Not Detected
Styrene	510	Not Detected	2200	Not Detected
Bromoform	510	Not Detected	5300	Not Detected
Cumene	510	Not Detected	2500	Not Detected
1,1,2,2-Tetrachloroethane	510	Not Detected	3500	Not Detected
Propylbenzene	510	Not Detected	2500	Not Detected
4-Ethyltoluene	510	Not Detected	2500	Not Detected
1,3,5-Trimethylbenzene	510	Not Detected	2500	Not Detected
1,2,4-Trimethylbenzene	510	Not Detected	2500	Not Detected
1,3-Dichlorobenzene	510	Not Detected	3100	Not Detected
1,4-Dichlorobenzene	510	Not Detected	3100	Not Detected
alpha-Chlorotoluene	2000	Not Detected	10000	Not Detected
1,2-Dichlorobenzene	510	Not Detected	3100	Not Detected
1,2,4-Trichlorobenzene	2000	Not Detected	15000	Not Detected
Hexachlorobutadiene	2000	Not Detected	22000	Not Detected

E = Exceeds instrument calibration range.
Q = Exceeds Quality Control limits.
Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	137 Q	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: B-13

Lab ID#: 1901425B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012810**	**Date of Collection:**	**1/22/19 11:15:00 AM**
Dil. Factor:	**19.7**	**Date of Analysis:**	**1/28/19 03:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	9.8	Not Detected	49	Not Detected
Freon 114	2.0	Not Detected	14	Not Detected
Chloromethane	9.8	Not Detected	20	Not Detected
Vinyl Chloride	2.0	Not Detected	5.0	Not Detected
1,3-Butadiene	2.0	Not Detected	4.4	Not Detected
Bromomethane	9.8	Not Detected	38	Not Detected
Chloroethane	9.8	Not Detected	26	Not Detected
Freon 11	2.0	Not Detected	11	Not Detected
Ethanol	9.8	Not Detected	18	Not Detected
Freon 113	2.0	Not Detected	15	Not Detected
1,1-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Acetone	9.8	20	23	48
2-Propanol	9.8	Not Detected	24	Not Detected
Carbon Disulfide	9.8	Not Detected	31	Not Detected
3-Chloropropene	9.8	Not Detected	31	Not Detected
Methylene Chloride	3.9	Not Detected	14	Not Detected
Methyl tert-butyl ether	2.0	Not Detected	7.1	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Hexane	2.0	Not Detected	6.9	Not Detected
1,1-Dichloroethane	2.0	Not Detected	8.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9.8	Not Detected	29	Not Detected
cis-1,2-Dichloroethene	2.0	Not Detected	7.8	Not Detected
Tetrahydrofuran	9.8	Not Detected	29	Not Detected
Chloroform	2.0	2.4	9.6	12
1,1,1-Trichloroethane	2.0	Not Detected	11	Not Detected
Cyclohexane	2.0	Not Detected	6.8	Not Detected
Carbon Tetrachloride	2.0	Not Detected	12	Not Detected
2,2,4-Trimethylpentane	9.8	Not Detected	46	Not Detected
Benzene	2.0	Not Detected	6.3	Not Detected
1,2-Dichloroethane	2.0	Not Detected	8.0	Not Detected
Heptane	2.0	Not Detected	8.1	Not Detected
Trichloroethene	2.0	5.0	10	27
1,2-Dichloropropane	2.0	Not Detected	9.1	Not Detected
1,4-Dioxane	2.0	Not Detected	7.1	Not Detected
Bromodichloromethane	2.0	Not Detected	13	Not Detected
cis-1,3-Dichloropropene	2.0	Not Detected	8.9	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.1	Not Detected
Toluene	2.0	4.1	7.4	15
trans-1,3-Dichloropropene	2.0	Not Detected	8.9	Not Detected
1,1,2-Trichloroethane	2.0	Not Detected	11	Not Detected
Tetrachloroethene	2.0	56	13	380
2-Hexanone	9.8	Not Detected	40	Not Detected

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Client Sample ID: B-13

Lab ID#: 1901425B-03A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012810**	**Date of Collection:**	**1/22/19 11:15:00 AM**
Dil. Factor:	**19.7**	**Date of Analysis:**	**1/28/19 03:25 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	2.0	Not Detected	17	Not Detected
1,2-Dibromoethane (EDB)	2.0	Not Detected	15	Not Detected
Chlorobenzene	2.0	Not Detected	9.1	Not Detected
Ethyl Benzene	2.0	Not Detected	8.6	Not Detected
m,p-Xylene	2.0	2.2	8.6	9.6
o-Xylene	2.0	Not Detected	8.6	Not Detected
Styrene	2.0	Not Detected	8.4	Not Detected
Bromoform	2.0	Not Detected	20	Not Detected
Cumene	2.0	Not Detected	9.7	Not Detected
1,1,2,2-Tetrachloroethane	2.0	Not Detected	14	Not Detected
Propylbenzene	2.0	Not Detected	9.7	Not Detected
4-Ethyltoluene	2.0	Not Detected	9.7	Not Detected
1,3,5-Trimethylbenzene	2.0	Not Detected	9.7	Not Detected
1,2,4-Trimethylbenzene	2.0	Not Detected	9.7	Not Detected
1,3-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,4-Dichlorobenzene	2.0	Not Detected	12	Not Detected
alpha-Chlorotoluene	2.0	Not Detected	10	Not Detected
1,2-Dichlorobenzene	2.0	Not Detected	12	Not Detected
1,2,4-Trichlorobenzene	9.8	Not Detected	73	Not Detected
Hexachlorobutadiene	9.8	Not Detected	100	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1901425B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/19 12:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.50	Not Detected	2.5	Not Detected
Freon 114	0.10	Not Detected	0.70	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.10	Not Detected	0.26	Not Detected
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
1,1-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Acetone	0.50	Not Detected	1.2	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Hexane	0.10	Not Detected	0.35	Not Detected
1,1-Dichloroethane	0.10	Not Detected	0.40	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
cis-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Chloroform	0.10	Not Detected	0.49	Not Detected
1,1,1-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
Carbon Tetrachloride	0.10	Not Detected	0.63	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Benzene	0.10	Not Detected	0.32	Not Detected
1,2-Dichloroethane	0.10	Not Detected	0.40	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
Trichloroethene	0.10	Not Detected	0.54	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
Toluene	0.10	Not Detected	0.38	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
1,1,2-Trichloroethane	0.10	Not Detected	0.54	Not Detected
Tetrachloroethene	0.10	Not Detected	0.68	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1901425B-04A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/19 12:03 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
1,2-Dibromoethane (EDB)	0.10	Not Detected	0.77	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Ethyl Benzene	0.10	Not Detected	0.43	Not Detected
m,p-Xylene	0.10	Not Detected	0.43	Not Detected
o-Xylene	0.10	Not Detected	0.43	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
1,1,2,2-Tetrachloroethane	0.10	Not Detected	0.69	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,4-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	95	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1901425B-04B

EPA METHOD TO-15 GC/MS

File Name:	**14020405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/19 10:12 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	20	Not Detected	82	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1901425B-04B

EPA METHOD TO-15 GC/MS

File Name:	**14020405**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/19 10:12 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	20	Not Detected	100	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1901425B-04C

EPA METHOD TO-15 GC/MS

File Name:	**14020505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/19 09:41 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	20	Not Detected	82	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1901425B-04C

EPA METHOD TO-15 GC/MS

File Name:	**14020505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/19 09:41 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	20	Not Detected	100	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: CCV

Lab ID#: 1901425B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/19 09:00 AM**

Compound	%Recovery
Freon 12	78
Freon 114	86
Chloromethane	80
Vinyl Chloride	88
1,3-Butadiene	85
Bromomethane	110
Chloroethane	96
Freon 11	95
Ethanol	119
Freon 113	93
1,1-Dichloroethene	95
Acetone	91
2-Propanol	110
Carbon Disulfide	96
3-Chloropropene	105
Methylene Chloride	90
Methyl tert-butyl ether	103
trans-1,2-Dichloroethene	92
Hexane	98
1,1-Dichloroethane	92
2-Butanone (Methyl Ethyl Ketone)	103
cis-1,2-Dichloroethene	94
Tetrahydrofuran	96
Chloroform	94
1,1,1-Trichloroethane	99
Cyclohexane	100
Carbon Tetrachloride	92
2,2,4-Trimethylpentane	102
Benzene	96
1,2-Dichloroethane	98
Heptane	102
Trichloroethene	104
1,2-Dichloropropane	100
1,4-Dioxane	105
Bromodichloromethane	103
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	118
Toluene	98
trans-1,3-Dichloropropene	108
1,1,2-Trichloroethane	104
Tetrachloroethene	100
2-Hexanone	108

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Client Sample ID: CCV

Lab ID#: 1901425B-05A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/19 09:00 AM**

Compound	**%Recovery**
Dibromochloromethane	115
1,2-Dibromoethane (EDB)	107
Chlorobenzene	97
Ethyl Benzene	104
m,p-Xylene	106
o-Xylene	110
Styrene	118
Bromoform	122
Cumene	106
1,1,2,2-Tetrachloroethane	108
Propylbenzene	100
4-Ethyltoluene	111
1,3,5-Trimethylbenzene	123
1,2,4-Trimethylbenzene	122
1,3-Dichlorobenzene	97
1,4-Dichlorobenzene	98
alpha-Chlorotoluene	99
1,2-Dichlorobenzene	98
1,2,4-Trichlorobenzene	108
Hexachlorobutadiene	108

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1901425B-05B

EPA METHOD TO-15 GC/MS

File Name:	**14020402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/19 08:44 AM**

Compound	%Recovery
Freon 12	98
Freon 114	102
Chloromethane	100
Vinyl Chloride	99
1,3-Butadiene	90
Bromomethane	97
Chloroethane	100
Freon 11	102
Ethanol	102
Freon 113	101
1,1-Dichloroethene	101
Acetone	99
2-Propanol	103
Carbon Disulfide	100
3-Chloropropene	112
Methylene Chloride	102
Methyl tert-butyl ether	101
trans-1,2-Dichloroethene	101
Hexane	95
1,1-Dichloroethane	103
2-Butanone (Methyl Ethyl Ketone)	98
cis-1,2-Dichloroethene	97
Tetrahydrofuran	99
Chloroform	98
1,1,1-Trichloroethane	99
Cyclohexane	96
Carbon Tetrachloride	106
2,2,4-Trimethylpentane	100
Benzene	99
1,2-Dichloroethane	103
Heptane	94
Trichloroethene	100
1,2-Dichloropropane	98
1,4-Dioxane	102
Bromodichloromethane	100
cis-1,3-Dichloropropene	110
4-Methyl-2-pentanone	101
Toluene	99
trans-1,3-Dichloropropene	112
1,1,2-Trichloroethane	101
Tetrachloroethene	106
2-Hexanone	103

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Client Sample ID: CCV

Lab ID#: 1901425B-05B

EPA METHOD TO-15 GC/MS

File Name:	**14020402**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/19 08:44 AM**

Compound	**%Recovery**
Dibromochloromethane	104
1,2-Dibromoethane (EDB)	104
Chlorobenzene	105
Ethyl Benzene	102
m,p-Xylene	104
o-Xylene	100
Styrene	106
Bromoform	109
Cumene	100
1,1,2,2-Tetrachloroethane	102
Propylbenzene	99
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	97
1,3-Dichlorobenzene	104
1,4-Dichlorobenzene	103
alpha-Chlorotoluene	98
1,2-Dichlorobenzene	102
1,2,4-Trichlorobenzene	81
Hexachlorobutadiene	92

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: CCV

Lab ID#: 1901425B-05C

EPA METHOD TO-15 GC/MS

File Name:	**14020502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/19 07:30 AM**

Compound	%Recovery
Freon 12	97
Freon 114	101
Chloromethane	92
Vinyl Chloride	93
1,3-Butadiene	82
Bromomethane	104
Chloroethane	105
Freon 11	100
Ethanol	99
Freon 113	101
1,1-Dichloroethene	96
Acetone	93
2-Propanol	93
Carbon Disulfide	95
3-Chloropropene	108
Methylene Chloride	97
Methyl tert-butyl ether	96
trans-1,2-Dichloroethene	98
Hexane	89
1,1-Dichloroethane	98
2-Butanone (Methyl Ethyl Ketone)	94
cis-1,2-Dichloroethene	93
Tetrahydrofuran	93
Chloroform	96
1,1,1-Trichloroethane	96
Cyclohexane	94
Carbon Tetrachloride	104
2,2,4-Trimethylpentane	95
Benzene	99
1,2-Dichloroethane	102
Heptane	94
Trichloroethene	102
1,2-Dichloropropane	96
1,4-Dioxane	103
Bromodichloromethane	100
cis-1,3-Dichloropropene	105
4-Methyl-2-pentanone	98
Toluene	99
trans-1,3-Dichloropropene	106
1,1,2-Trichloroethane	99
Tetrachloroethene	104
2-Hexanone	97

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Client Sample ID: CCV

Lab ID#: 1901425B-05C

EPA METHOD TO-15 GC/MS

File Name:	**14020502**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/19 07:30 AM**

Compound	%Recovery
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	104
Chlorobenzene	102
Ethyl Benzene	102
m,p-Xylene	102
o-Xylene	99
Styrene	104
Bromoform	108
Cumene	100
1,1,2,2-Tetrachloroethane	100
Propylbenzene	99
4-Ethyltoluene	103
1,3,5-Trimethylbenzene	101
1,2,4-Trimethylbenzene	102
1,3-Dichlorobenzene	106
1,4-Dichlorobenzene	107
alpha-Chlorotoluene	91
1,2-Dichlorobenzene	104
1,2,4-Trichlorobenzene	95
Hexachlorobutadiene	96

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 1901425B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/19 09:48 AM**	

Compound	%Recovery	Method Limits
Freon 12	92	70-130
Freon 114	96	70-130
Chloromethane	88	70-130
Vinyl Chloride	94	70-130
1,3-Butadiene	88	70-130
Bromomethane	125	70-130
Chloroethane	110	70-130
Freon 11	105	70-130
Ethanol	152 Q	70-130
Freon 113	103	70-130
1,1-Dichloroethene	102	70-130
Acetone	112	70-130
2-Propanol	128	70-130
Carbon Disulfide	109	70-130
3-Chloropropene	108	70-130
Methylene Chloride	101	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	110	70-130
Hexane	106	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	121	70-130
cis-1,2-Dichloroethene	95	70-130
Tetrahydrofuran	108	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	110	70-130
Cyclohexane	109	70-130
Carbon Tetrachloride	79	70-130
2,2,4-Trimethylpentane	114	70-130
Benzene	107	70-130
1,2-Dichloroethane	110	70-130
Heptane	113	70-130
Trichloroethene	117	70-130
1,2-Dichloropropane	114	70-130
1,4-Dioxane	124	70-130
Bromodichloromethane	117	70-130
cis-1,3-Dichloropropene	130	70-130
4-Methyl-2-pentanone	141 Q	70-130
Toluene	110	70-130
trans-1,3-Dichloropropene	117	70-130
1,1,2-Trichloroethane	117	70-130
Tetrachloroethene	111	70-130
2-Hexanone	129	70-130

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Client Sample ID: LCS

Lab ID#: 1901425B-06A

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/19 09:48 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	130	70-130
1,2-Dibromoethane (EDB)	121	70-130
Chlorobenzene	110	70-130
Ethyl Benzene	115	70-130
m,p-Xylene	117	70-130
o-Xylene	121	70-130
Styrene	130	70-130
Bromoform	139 Q	70-130
Cumene	117	70-130
1,1,2,2-Tetrachloroethane	122	70-130
Propylbenzene	111	70-130
4-Ethyltoluene	120	70-130
1,3,5-Trimethylbenzene	129	70-130
1,2,4-Trimethylbenzene	127	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	116	70-130
1,2-Dichlorobenzene	110	70-130
1,2,4-Trichlorobenzene	97	70-130
Hexachlorobutadiene	97	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: LCSD

Lab ID#: 1901425B-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/19 10:40 AM**	

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	94	70-130
Chloromethane	94	70-130
Vinyl Chloride	92	70-130
1,3-Butadiene	86	70-130
Bromomethane	126	70-130
Chloroethane	109	70-130
Freon 11	105	70-130
Ethanol	152 Q	70-130
Freon 113	103	70-130
1,1-Dichloroethene	100	70-130
Acetone	112	70-130
2-Propanol	126	70-130
Carbon Disulfide	109	70-130
3-Chloropropene	106	70-130
Methylene Chloride	100	70-130
Methyl tert-butyl ether	105	70-130
trans-1,2-Dichloroethene	109	70-130
Hexane	104	70-130
1,1-Dichloroethane	101	70-130
2-Butanone (Methyl Ethyl Ketone)	121	70-130
cis-1,2-Dichloroethene	94	70-130
Tetrahydrofuran	106	70-130
Chloroform	105	70-130
1,1,1-Trichloroethane	109	70-130
Cyclohexane	106	70-130
Carbon Tetrachloride	78	70-130
2,2,4-Trimethylpentane	113	70-130
Benzene	109	70-130
1,2-Dichloroethane	112	70-130
Heptane	111	70-130
Trichloroethene	118	70-130
1,2-Dichloropropane	116	70-130
1,4-Dioxane	123	70-130
Bromodichloromethane	119	70-130
cis-1,3-Dichloropropene	130	70-130
4-Methyl-2-pentanone	142 Q	70-130
Toluene	111	70-130
trans-1,3-Dichloropropene	117	70-130
1,1,2-Trichloroethane	121	70-130
Tetrachloroethene	112	70-130
2-Hexanone	127	70-130

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Client Sample ID: LCSD

Lab ID#: 1901425B-06AA

MODIFIED EPA METHOD TO-15 GC/MS FULL SCAN

File Name:	**22012804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 1/28/19 10:40 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	132 Q	70-130
1,2-Dibromoethane (EDB)	124	70-130
Chlorobenzene	110	70-130
Ethyl Benzene	114	70-130
m,p-Xylene	115	70-130
o-Xylene	119	70-130
Styrene	130	70-130
Bromoform	140 Q	70-130
Cumene	114	70-130
1,1,2,2-Tetrachloroethane	126	70-130
Propylbenzene	109	70-130
4-Ethyltoluene	119	70-130
1,3,5-Trimethylbenzene	128	70-130
1,2,4-Trimethylbenzene	127	70-130
1,3-Dichlorobenzene	105	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	114	70-130
1,2-Dichlorobenzene	111	70-130
1,2,4-Trichlorobenzene	106	70-130
Hexachlorobutadiene	108	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 1901425B-06B

EPA METHOD TO-15 GC/MS

File Name:	**14020403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/19 09:14 AM**	

Compound	%Recovery	Method Limits
Freon 12	101	70-130
Freon 114	102	70-130
Chloromethane	103	70-130
Vinyl Chloride	104	70-130
1,3-Butadiene	93	70-130
Bromomethane	108	70-130
Chloroethane	92	70-130
Freon 11	100	70-130
Ethanol	106	70-130
Freon 113	102	70-130
1,1-Dichloroethene	98	70-130
Acetone	104	70-130
2-Propanol	98	70-130
Carbon Disulfide	100	70-130
3-Chloropropene	110	70-130
Methylene Chloride	97	70-130
Methyl tert-butyl ether	102	70-130
trans-1,2-Dichloroethene	103	70-130
Hexane	94	70-130
1,1-Dichloroethane	100	70-130
2-Butanone (Methyl Ethyl Ketone)	100	70-130
cis-1,2-Dichloroethene	93	70-130
Tetrahydrofuran	100	70-130
Chloroform	100	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	98	70-130
Carbon Tetrachloride	106	70-130
2,2,4-Trimethylpentane	98	70-130
Benzene	96	70-130
1,2-Dichloroethane	99	70-130
Heptane	100	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	94	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	101	70-130
cis-1,3-Dichloropropene	105	70-130
4-Methyl-2-pentanone	96	70-130
Toluene	94	70-130
trans-1,3-Dichloropropene	105	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	102	70-130
2-Hexanone	98	70-130

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Client Sample ID: LCS

Lab ID#: 1901425B-06B

EPA METHOD TO-15 GC/MS

File Name:	**14020403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/19 09:14 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	102	70-130
Chlorobenzene	102	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	101	70-130
o-Xylene	100	70-130
Styrene	98	70-130
Bromoform	106	70-130
Cumene	96	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	97	70-130
4-Ethyltoluene	98	70-130
1,3,5-Trimethylbenzene	97	70-130
1,2,4-Trimethylbenzene	97	70-130
1,3-Dichlorobenzene	102	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	94	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	104	70-130
Hexachlorobutadiene	101	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 1901425B-06BB

EPA METHOD TO-15 GC/MS

File Name:	**14020404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/19 09:41 AM**	

Compound	%Recovery	Method Limits
Freon 12	98	70-130
Freon 114	107	70-130
Chloromethane	102	70-130
Vinyl Chloride	102	70-130
1,3-Butadiene	94	70-130
Bromomethane	94	70-130
Chloroethane	87	70-130
Freon 11	103	70-130
Ethanol	101	70-130
Freon 113	102	70-130
1,1-Dichloroethene	99	70-130
Acetone	104	70-130
2-Propanol	100	70-130
Carbon Disulfide	101	70-130
3-Chloropropene	102	70-130
Methylene Chloride	97	70-130
Methyl tert-butyl ether	99	70-130
trans-1,2-Dichloroethene	106	70-130
Hexane	96	70-130
1,1-Dichloroethane	99	70-130
2-Butanone (Methyl Ethyl Ketone)	106	70-130
cis-1,2-Dichloroethene	93	70-130
Tetrahydrofuran	99	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	102	70-130
Cyclohexane	101	70-130
Carbon Tetrachloride	109	70-130
2,2,4-Trimethylpentane	100	70-130
Benzene	95	70-130
1,2-Dichloroethane	100	70-130
Heptane	102	70-130
Trichloroethene	98	70-130
1,2-Dichloropropane	95	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	103	70-130
4-Methyl-2-pentanone	94	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	101	70-130
1,1,2-Trichloroethane	99	70-130
Tetrachloroethene	103	70-130
2-Hexanone	97	70-130

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Client Sample ID: LCSD

Lab ID#: 1901425B-06BB

EPA METHOD TO-15 GC/MS

File Name:	**14020404**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/4/19 09:41 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	104	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	101	70-130
Ethyl Benzene	97	70-130
m,p-Xylene	100	70-130
o-Xylene	98	70-130
Styrene	97	70-130
Bromoform	105	70-130
Cumene	98	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	98	70-130
4-Ethyltoluene	99	70-130
1,3,5-Trimethylbenzene	100	70-130
1,2,4-Trimethylbenzene	93	70-130
1,3-Dichlorobenzene	106	70-130
1,4-Dichlorobenzene	108	70-130
alpha-Chlorotoluene	93	70-130
1,2-Dichlorobenzene	105	70-130
1,2,4-Trichlorobenzene	105	70-130
Hexachlorobutadiene	112	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCS

Lab ID#: 1901425B-06C

EPA METHOD TO-15 GC/MS

File Name:	**14020503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/19 08:24 AM**	

Compound	%Recovery	Method Limits
Freon 12	94	70-130
Freon 114	101	70-130
Chloromethane	87	70-130
Vinyl Chloride	91	70-130
1,3-Butadiene	82	70-130
Bromomethane	76	70-130
Chloroethane	81	70-130
Freon 11	100	70-130
Ethanol	93	70-130
Freon 113	99	70-130
1,1-Dichloroethene	94	70-130
Acetone	91	70-130
2-Propanol	90	70-130
Carbon Disulfide	94	70-130
3-Chloropropene	84	70-130
Methylene Chloride	93	70-130
Methyl tert-butyl ether	88	70-130
trans-1,2-Dichloroethene	96	70-130
Hexane	87	70-130
1,1-Dichloroethane	91	70-130
2-Butanone (Methyl Ethyl Ketone)	91	70-130
cis-1,2-Dichloroethene	87	70-130
Tetrahydrofuran	93	70-130
Chloroform	92	70-130
1,1,1-Trichloroethane	92	70-130
Cyclohexane	91	70-130
Carbon Tetrachloride	101	70-130
2,2,4-Trimethylpentane	91	70-130
Benzene	95	70-130
1,2-Dichloroethane	97	70-130
Heptane	97	70-130
Trichloroethene	97	70-130
1,2-Dichloropropane	91	70-130
1,4-Dioxane	96	70-130
Bromodichloromethane	99	70-130
cis-1,3-Dichloropropene	100	70-130
4-Methyl-2-pentanone	94	70-130
Toluene	95	70-130
trans-1,3-Dichloropropene	99	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	101	70-130
2-Hexanone	89	70-130

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Client Sample ID: LCS

Lab ID#: 1901425B-06C

EPA METHOD TO-15 GC/MS

File Name:	**14020503**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/19 08:24 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	102	70-130
1,2-Dibromoethane (EDB)	98	70-130
Chlorobenzene	100	70-130
Ethyl Benzene	100	70-130
m,p-Xylene	99	70-130
o-Xylene	94	70-130
Styrene	94	70-130
Bromoform	101	70-130
Cumene	95	70-130
1,1,2,2-Tetrachloroethane	95	70-130
Propylbenzene	95	70-130
4-Ethyltoluene	98	70-130
1,3,5-Trimethylbenzene	96	70-130
1,2,4-Trimethylbenzene	95	70-130
1,3-Dichlorobenzene	104	70-130
1,4-Dichlorobenzene	107	70-130
alpha-Chlorotoluene	83	70-130
1,2-Dichlorobenzene	104	70-130
1,2,4-Trichlorobenzene	99	70-130
Hexachlorobutadiene	109	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCSD

Lab ID#: 1901425B-06CC

EPA METHOD TO-15 GC/MS

File Name:	**14020504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/19 08:56 AM**	

Compound	%Recovery	Method Limits
Freon 12	97	70-130
Freon 114	101	70-130
Chloromethane	97	70-130
Vinyl Chloride	94	70-130
1,3-Butadiene	82	70-130
Bromomethane	102	70-130
Chloroethane	80	70-130
Freon 11	100	70-130
Ethanol	92	70-130
Freon 113	100	70-130
1,1-Dichloroethene	93	70-130
Acetone	92	70-130
2-Propanol	86	70-130
Carbon Disulfide	93	70-130
3-Chloropropene	90	70-130
Methylene Chloride	91	70-130
Methyl tert-butyl ether	93	70-130
trans-1,2-Dichloroethene	98	70-130
Hexane	88	70-130
1,1-Dichloroethane	94	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	88	70-130
Tetrahydrofuran	89	70-130
Chloroform	92	70-130
1,1,1-Trichloroethane	93	70-130
Cyclohexane	91	70-130
Carbon Tetrachloride	102	70-130
2,2,4-Trimethylpentane	91	70-130
Benzene	93	70-130
1,2-Dichloroethane	96	70-130
Heptane	93	70-130
Trichloroethene	100	70-130
1,2-Dichloropropane	92	70-130
1,4-Dioxane	97	70-130
Bromodichloromethane	97	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	90	70-130
Toluene	93	70-130
trans-1,3-Dichloropropene	98	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	100	70-130
2-Hexanone	88	70-130

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Client Sample ID: LCSD

Lab ID#: 1901425B-06CC

EPA METHOD TO-15 GC/MS

File Name:	**14020504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 2/5/19 08:56 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	95	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	95	70-130
o-Xylene	94	70-130
Styrene	91	70-130
Bromoform	100	70-130
Cumene	93	70-130
1,1,2,2-Tetrachloroethane	93	70-130
Propylbenzene	93	70-130
4-Ethyltoluene	98	70-130
1,3,5-Trimethylbenzene	95	70-130
1,2,4-Trimethylbenzene	97	70-130
1,3-Dichlorobenzene	101	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	84	70-130
1,2-Dichlorobenzene	99	70-130
1,2,4-Trichlorobenzene	115	70-130
Hexachlorobutadiene	108	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	100	70-130

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-1

Lab ID#: 1901425A-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.29	1.8	0.64	4.0
Ethanol	2.9	430 E	5.4	810 E
Acetone	1.4	110	3.4	270
2-Propanol	1.4	27 J0	3.5	65 J0
Methylene Chloride	0.58	0.91	2.0	3.2
Hexane	0.29	9.0	1.0	32
Cyclohexane	0.29	2.0	0.99	6.9
2,2,4-Trimethylpentane	1.4	8.2	6.7	38
Heptane	0.29	3.3	1.2	14
4-Methyl-2-pentanone	0.29	4.1	1.2	17
Cumene	0.29	0.38	1.4	1.8
Propylbenzene	0.29	1.7	1.4	8.4
4-Ethyltoluene	0.29	2.8	1.4	14
1,3,5-Trimethylbenzene	0.29	2.4	1.4	12
1,2,4-Trimethylbenzene	0.29	7.7	1.4	38

Client Sample ID: A-1

Lab ID#: 1901425A-04B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.058	0.48	0.28	2.4
Vinyl Chloride	0.029	0.060	0.074	0.15
1,1-Dichloroethene	0.029	0.052	0.11	0.20
1,1-Dichloroethane	0.058	0.11	0.23	0.46
cis-1,2-Dichloroethene	0.058	3.2	0.23	13
Chloroform	0.058	0.26	0.28	1.3
1,1,1-Trichloroethane	0.058	0.58	0.31	3.2
Carbon Tetrachloride	0.058	0.079	0.36	0.50
Benzene	0.14	3.1	0.46	9.8
Trichloroethene	0.058	3.8	0.31	20
Toluene	0.058	8.1	0.22	31
Tetrachloroethene	0.058	34	0.39	230
Ethyl Benzene	0.058	2.6	0.25	11

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-1

Lab ID#: 1901425A-04B

m,p-Xylene	0.12	8.5	0.50	37
o-Xylene	0.058	3.3	0.25	14

Client Sample ID: A-2

Lab ID#: 1901425A-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.29	1.7	0.64	3.7
Ethanol	2.9	210 E	5.4	400 E
Acetone	1.4	200 E	3.4	490 E
2-Propanol	1.4	14 J0	3.5	34 J0
Hexane	0.29	10	1.0	36
Cyclohexane	0.29	2.1	0.99	7.2
2,2,4-Trimethylpentane	1.4	9.0	6.7	42
Heptane	0.29	3.6	1.2	15
4-Methyl-2-pentanone	0.29	9.5	1.2	39
Cumene	0.29	0.41	1.4	2.0
Propylbenzene	0.29	1.8	1.4	9.0
4-Ethyltoluene	0.29	3.0	1.4	15
1,3,5-Trimethylbenzene	0.29	2.8	1.4	14
1,2,4-Trimethylbenzene	0.29	9.1	1.4	45

Client Sample ID: A-2

Lab ID#: 1901425A-05B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.058	0.47	0.28	2.3
Vinyl Chloride	0.029	0.032	0.074	0.081
1,1-Dichloroethene	0.029	0.067	0.11	0.27
1,1-Dichloroethane	0.058	0.15	0.23	0.62
cis-1,2-Dichloroethene	0.058	4.2	0.23	16
Chloroform	0.058	0.34	0.28	1.7
1,1,1-Trichloroethane	0.058	0.78	0.31	4.3
Carbon Tetrachloride	0.058	0.096	0.36	0.60

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-2

Lab ID#: 1901425A-05B

Benzene	0.14	3.5	0.46	11
Trichloroethene	0.058	4.7	0.31	25
Toluene	0.058	10	0.22	39
Tetrachloroethene	0.058	38	0.39	260
Ethyl Benzene	0.058	3.6	0.25	16
m,p-Xylene	0.12	12	0.50	54
o-Xylene	0.058	4.5	0.25	19

Client Sample ID: A-3

Lab ID#: 1901425A-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.30	2.1	0.66	4.7
Ethanol	3.0	180 E	5.6	330 E
Acetone	1.5	300 E	3.6	720 E
2-Propanol	1.5	12 J0	3.7	31 J0
Hexane	0.30	10	1.0	35
2-Butanone (Methyl Ethyl Ketone)	1.5	1.6	4.4	4.8
Cyclohexane	0.30	2.3	1.0	7.8
2,2,4-Trimethylpentane	1.5	8.9	7.0	42
Heptane	0.30	3.3	1.2	13
4-Methyl-2-pentanone	0.30	14	1.2	59
Cumene	0.30	0.50	1.5	2.5
Propylbenzene	0.30	2.1	1.5	10
4-Ethyltoluene	0.30	3.3	1.5	16
1,3,5-Trimethylbenzene	0.30	3.0	1.5	15
1,2,4-Trimethylbenzene	0.30	10	1.5	50

Client Sample ID: A-3

Lab ID#: 1901425A-06B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.060	0.47	0.30	2.3
Vinyl Chloride	0.030	0.033	0.077	0.084

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-3

Lab ID#: 1901425A-06B

1,1-Dichloroethene	0.030	0.071	0.12	0.28
1,1-Dichloroethane	0.060	0.17	0.24	0.70
cis-1,2-Dichloroethene	0.060	4.7	0.24	18
Chloroform	0.060	0.38	0.29	1.8
1,1,1-Trichloroethane	0.060	0.86	0.33	4.7
Carbon Tetrachloride	0.060	0.10	0.38	0.64
Benzene	0.15	3.5	0.48	11
Trichloroethene	0.060	5.2	0.32	28
Toluene	0.060	10	0.23	40
Tetrachloroethene	0.060	42	0.41	280
Ethyl Benzene	0.060	4.2	0.26	18
m,p-Xylene	0.12	14	0.52	62
o-Xylene	0.060	4.9	0.26	21

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: B-11

Lab ID#: 1901425B-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	33	2500	84	6300
trans-1,2-Dichloroethene	33	71	130	280
Hexane	33	330	120	1200
cis-1,2-Dichloroethene	33	1300	130	5200
Cyclohexane	33	370	110	1300
2,2,4-Trimethylpentane	33	3100	150	14000
Heptane	33	140	130	560

Client Sample ID: B-12

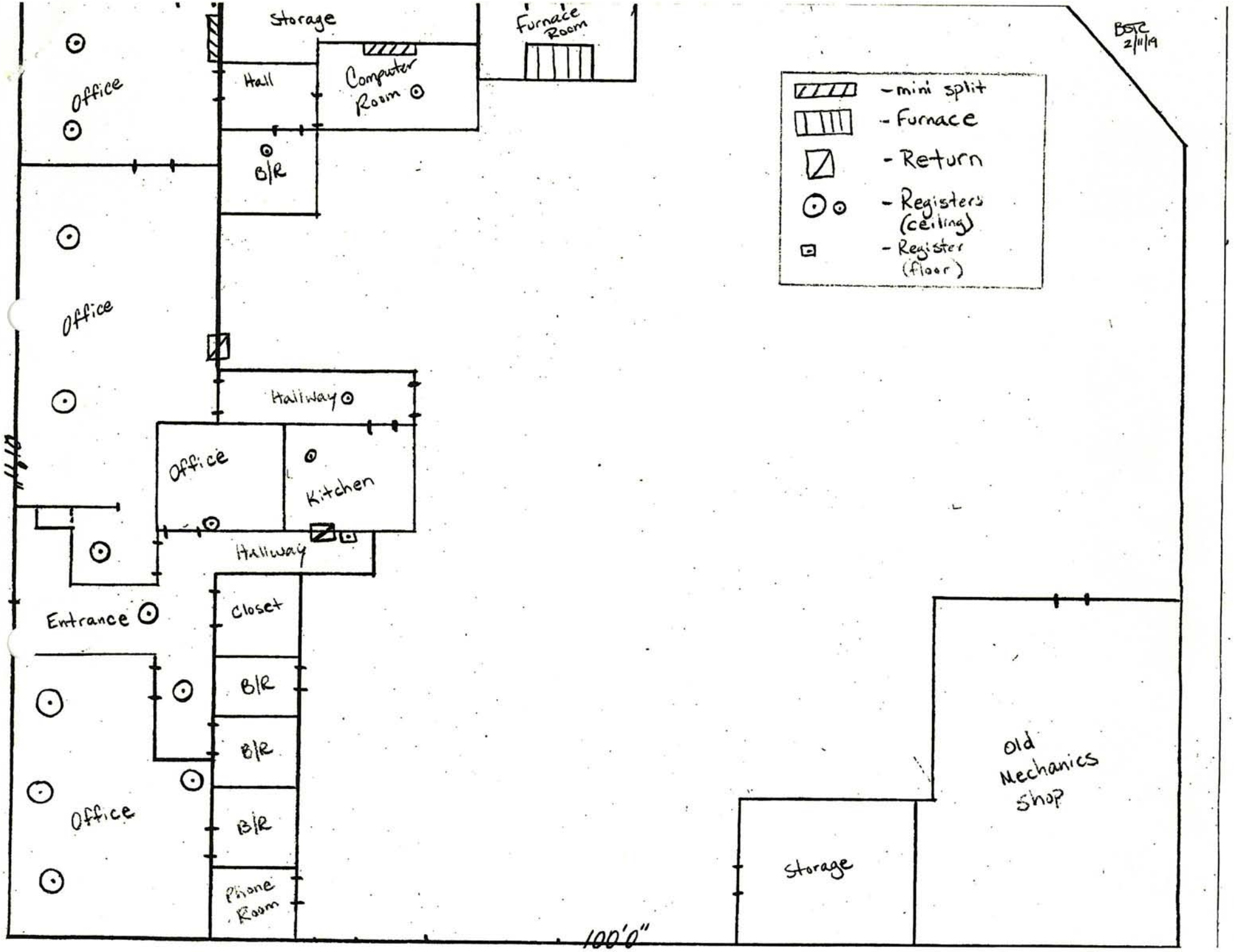
Lab ID#: 1901425B-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Hexane	510	150000 E	1800	520000 E
Cyclohexane	510	57000	1800	200000
2,2,4-Trimethylpentane	510	880000 E	2400	4100000 E
Benzene	510	8800	1600	28000
Heptane	510	79000	2100	320000
m,p-Xylene	510	1000	2200	4500

Client Sample ID: B-13

Lab ID#: 1901425B-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Acetone	9.8	20	23	48
Chloroform	2.0	2.4	9.6	12
Trichloroethene	2.0	5.0	10	27
Toluene	2.0	4.1	7.4	15
Tetrachloroethene	2.0	56	13	380
m,p-Xylene	2.0	2.2	8.6	9.6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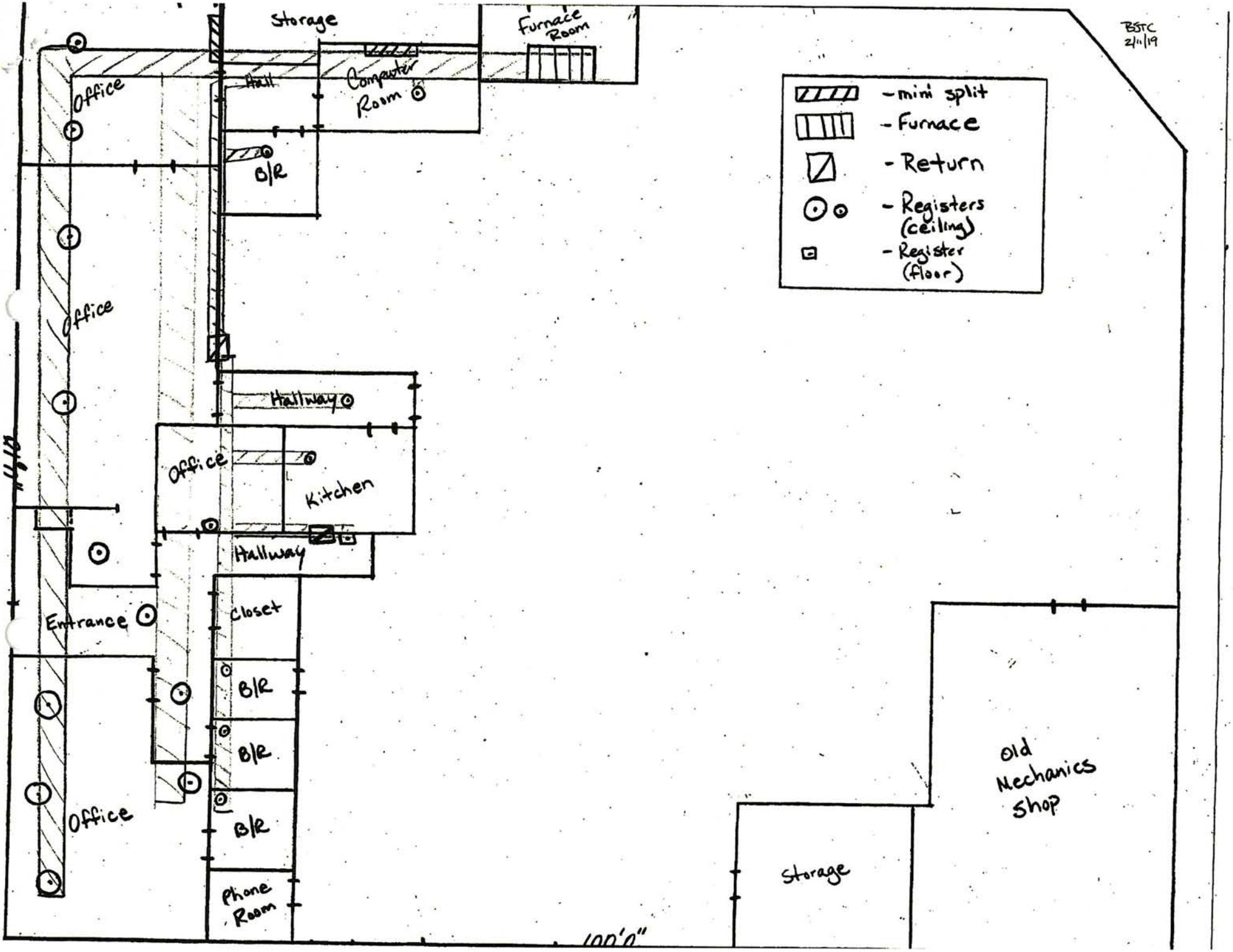
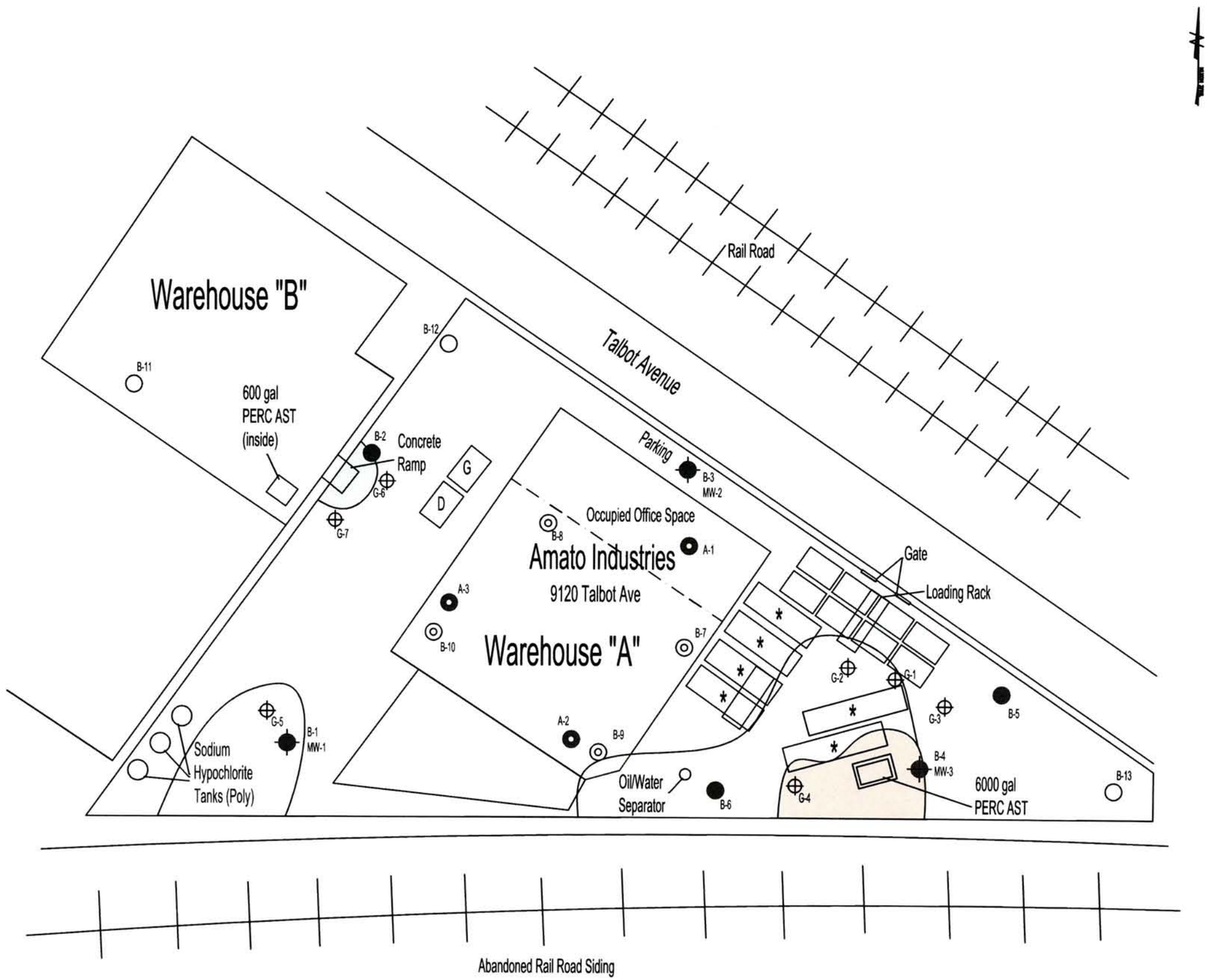
Furnace Room
Office
Hall
Computer Room
B/R
Office
Hallway
Office
Kitchen
Hallway
Entrance
Closet
B/R
B/R
B/R
Office
Phone Room
100'0"
Storage
Old Mechanics Shop
- mini split
- Furnace
- Return
- Registers (ceiling)
- Register (floor)
BSTC 2/11/19


BSTC
2/11/19
Storage
Furnace Room
Computer Room
Hall
Office
B/R
Office
Hallway
Office
Kitchen
Hallway
Entrance
Closet
B/R
B/R
B/R
Office
Phone Room
Storage
Old Mechanics Shop
100'0"
- mini split
- Furnace
- Return
- Registers (ceiling)
- Register (floor)



Legend

- CCRG Sub-Slab Vapor Sampling Points - November, 2018
- CCRG Soil Gas and Monitoring Wells - November, 2018
- CCRG Soil Gas Monitoring Points - November, 2018
- TEC Geoprobe Borings - February, 2004

- AOI #1 - Former PCE AST and Immediate Vicinity
- AOI #2 - Estimated Area of Former PCE Handling
- AOI #3 - Area of Suspect PCE Impacts
- AOI #4 - Near Vicinity of PCE Re-Packaging Area

- Soil Gas Boring location - January, 2019
- Ambient Air sampling location - January, 2019

Notes:

- Base Drawing is based on Figure 2 of Total Environment Concept's report dated March 8, 2004
- Areas of Interest were determined by Brian Dietz of MDE in a letter to Amato dated February 27,2018

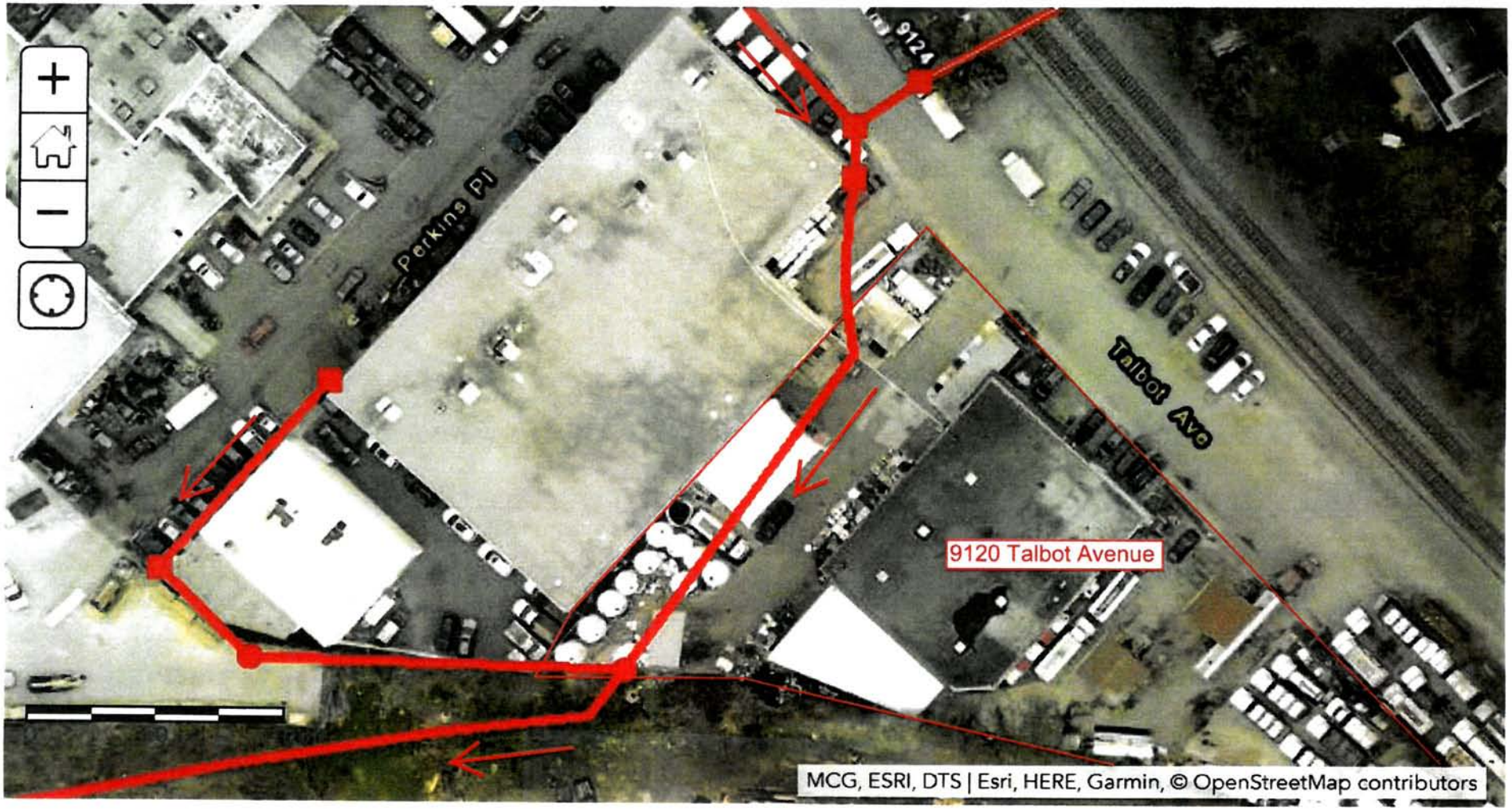
CCRG
Clendenin Consulting & Remediation Group

Amato Industries Characterization

Boring Site Plan

Silver Spring, Maryland

Date: 1/4/2019	Scale: 1" = +or- 40' (scale approximated)
Drawn by: JWM	Approved by: BEC
Project #: 18006	Figure: 1



Notes:

Image provided by the Esri OpenStreetMap database dated October 8, 2018

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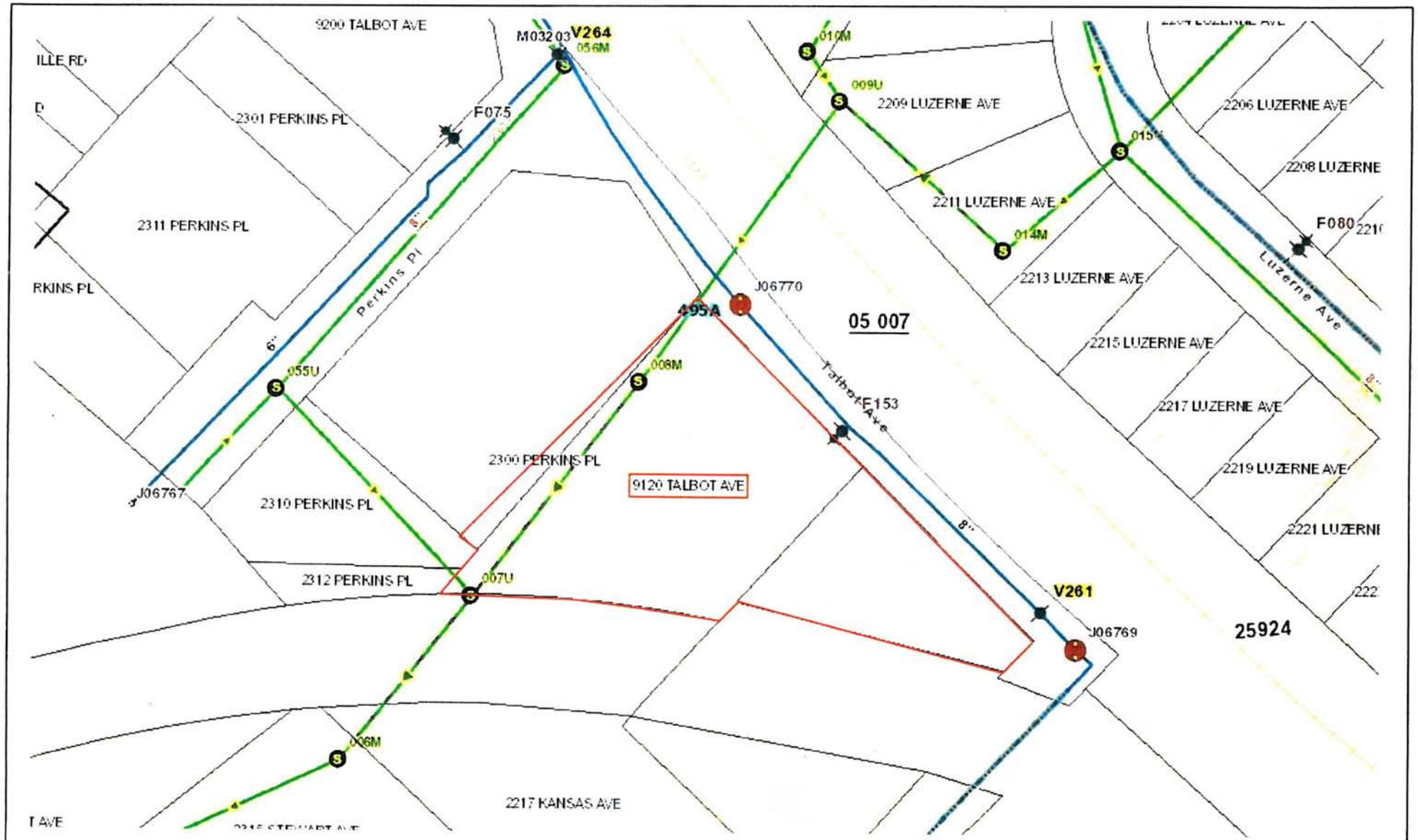
Clendenin Consulting & Remediation Group

9120 Talbot Avenue

Storm Sewer System Flow

Silver Spring, Maryland

Date: February 14, 2019	Scale: not to scale
Drawn by: JWM	Approved by: BEC
Project #: 18006	Figure: 2



CCRG
Clendenin Consulting & Remediation Group

9120 Talbot Avenue

WSSC Map

Silver Spring, Maryland

Date: February 14, 2019	Scale: not to scale
Drawn by: JWM	Approved by: BEC
Project #: 18006	Figure: 3

Notes:

Image provided by David Unger, Director of Surveys for VIKA dated January 18, 2019

ANALYTICAL REPORT

March 14, 2019

Clendenin Consulting Group - VA

Sample Delivery Group:	L1076531
Samples Received:	03/07/2019
Project Number:	18006
Description:	Amato Property
Report To:	Samantha Kirk 116 C2 Edwards Ferry Road Leesburg, VA 20176

Entire Report Reviewed By:

Pam Langford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

G-1 L1076531-01 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 09:45	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248258	1	03/11/19 16:11	03/11/19 16:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	8	03/08/19 09:55	03/10/19 18:34	DWR	Mt. Juliet, TN

G-2 L1076531-02 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 09:55	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248258	1	03/11/19 16:11	03/11/19 16:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1248332	1	03/08/19 09:55	03/11/19 17:20	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1249515	40	03/08/19 09:55	03/14/19 11:34	BMB	Mt. Juliet, TN

G-5 L1076531-03 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 10:15	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248258	1	03/11/19 16:11	03/11/19 16:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	8	03/08/19 09:55	03/10/19 19:11	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1249192	800	03/08/19 09:55	03/13/19 17:07	JAH	Mt. Juliet, TN

G-6 L1076531-04 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 10:40	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248258	1	03/11/19 16:11	03/11/19 16:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	200	03/08/19 09:55	03/10/19 19:30	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1248083	20000	03/08/19 09:55	03/11/19 18:29	DWR	Mt. Juliet, TN

G-7 L1076531-05 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 11:00	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248258	1	03/11/19 16:11	03/11/19 16:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	1	03/08/19 09:55	03/10/19 15:07	DWR	Mt. Juliet, TN

G-8 L1076531-06 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 11:15	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248258	1	03/11/19 16:11	03/11/19 16:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	1	03/08/19 09:55	03/10/19 15:26	DWR	Mt. Juliet, TN

G-9 L1076531-07 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 11:25	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248258	1	03/11/19 16:11	03/11/19 16:23	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	40	03/08/19 09:55	03/10/19 19:49	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1248083	800	03/08/19 09:55	03/11/19 18:47	DWR	Mt. Juliet, TN

G-10 L1076531-08 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 11:45	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248261	1	03/11/19 15:58	03/11/19 16:07	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	80	03/08/19 09:55	03/10/19 20:08	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1248083	800	03/08/19 09:55	03/11/19 19:06	DWR	Mt. Juliet, TN

G-11 L1076531-09 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 11:55	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248261	1	03/11/19 15:58	03/11/19 16:07	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1248332	1	03/08/19 09:55	03/11/19 17:40	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1249515	40	03/08/19 09:55	03/14/19 11:53	BMB	Mt. Juliet, TN

G-12 L1076531-10 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 12:10	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248261	1	03/11/19 15:58	03/11/19 16:07	KDW	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	1	03/08/19 09:55	03/10/19 15:45	DWR	Mt. Juliet, TN

CG-13 L1076531-11 Solid

Collected by	Collected date/time	Received date/time
WM	03/06/19 13:00	03/07/19 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1248261	1	03/11/19 15:58	03/11/19 16:07	KDW	Mt. Juliet, TN
Wet Chemistry by Method 9071B	WG1247876	1	03/10/19 11:50	03/10/19 13:33	DAD	Mt. Juliet, TN
Mercury by Method 7471A	WG1248027	1	03/10/19 20:41	03/11/19 13:55	ABL	Mt. Juliet, TN
Metals (ICP) by Method 6010B	WG1247085	1	03/09/19 13:52	03/12/19 17:49	TRB	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1248003	25	03/08/19 09:55	03/10/19 20:40	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1247709	1	03/08/19 09:55	03/10/19 16:04	DWR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1247915	100	03/10/19 08:17	03/10/19 15:13	KME	Mt. Juliet, TN
Polychlorinated Biphenyls (GC) by Method 8082	WG1247960	1	03/11/19 12:41	03/11/19 19:59	MTJ	Mt. Juliet, TN
Semi Volatile Organic Compounds (GC/MS) by Method 8270C	WG1247941	10	03/11/19 13:12	03/12/19 02:48	JNJ	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Pamela A. Langford

Pam Langford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	91.7		1	03/11/2019 16:23	WG1248258

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.200	8	03/10/2019 18:34	WG1247709
Acrylonitrile	ND		0.100	8	03/10/2019 18:34	WG1247709
Benzene	ND		0.00800	8	03/10/2019 18:34	WG1247709
Bromobenzene	ND	J4	0.100	8	03/10/2019 18:34	WG1247709
Bromodichloromethane	ND	J4	0.0200	8	03/10/2019 18:34	WG1247709
Bromoform	ND		0.200	8	03/10/2019 18:34	WG1247709
Bromomethane	ND		0.100	8	03/10/2019 18:34	WG1247709
n-Butylbenzene	0.115		0.100	8	03/10/2019 18:34	WG1247709
sec-Butylbenzene	0.104		0.100	8	03/10/2019 18:34	WG1247709
tert-Butylbenzene	ND		0.0400	8	03/10/2019 18:34	WG1247709
Carbon tetrachloride	ND		0.0400	8	03/10/2019 18:34	WG1247709
Chlorobenzene	ND		0.0200	8	03/10/2019 18:34	WG1247709
Chlorodibromomethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
Chloroethane	ND		0.0400	8	03/10/2019 18:34	WG1247709
Chloroform	ND		0.0200	8	03/10/2019 18:34	WG1247709
Chloromethane	ND		0.100	8	03/10/2019 18:34	WG1247709
2-Chlorotoluene	ND	J4	0.0200	8	03/10/2019 18:34	WG1247709
4-Chlorotoluene	ND		0.0400	8	03/10/2019 18:34	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	0.200	8	03/10/2019 18:34	WG1247709
1,2-Dibromoethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
Dibromomethane	ND		0.0400	8	03/10/2019 18:34	WG1247709
1,2-Dichlorobenzene	ND		0.0400	8	03/10/2019 18:34	WG1247709
1,3-Dichlorobenzene	ND		0.0400	8	03/10/2019 18:34	WG1247709
1,4-Dichlorobenzene	ND		0.0400	8	03/10/2019 18:34	WG1247709
Dichlorodifluoromethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
1,1-Dichloroethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
1,2-Dichloroethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
1,1-Dichloroethene	ND		0.0200	8	03/10/2019 18:34	WG1247709
cis-1,2-Dichloroethene	0.506		0.0200	8	03/10/2019 18:34	WG1247709
trans-1,2-Dichloroethene	ND		0.0400	8	03/10/2019 18:34	WG1247709
1,2-Dichloropropane	ND		0.0400	8	03/10/2019 18:34	WG1247709
1,1-Dichloropropene	ND		0.0200	8	03/10/2019 18:34	WG1247709
1,3-Dichloropropane	ND		0.0400	8	03/10/2019 18:34	WG1247709
cis-1,3-Dichloropropene	ND		0.0200	8	03/10/2019 18:34	WG1247709
trans-1,3-Dichloropropene	ND		0.0400	8	03/10/2019 18:34	WG1247709
2,2-Dichloropropane	ND		0.0200	8	03/10/2019 18:34	WG1247709
Di-isopropyl ether	ND		0.00800	8	03/10/2019 18:34	WG1247709
Ethylbenzene	0.0215		0.0200	8	03/10/2019 18:34	WG1247709
Hexachloro-1,3-butadiene	ND		0.200	8	03/10/2019 18:34	WG1247709
Isopropylbenzene	ND		0.0200	8	03/10/2019 18:34	WG1247709
p-Isopropyltoluene	0.138		0.0400	8	03/10/2019 18:34	WG1247709
2-Butanone (MEK)	ND		0.200	8	03/10/2019 18:34	WG1247709
Methylene Chloride	ND		0.200	8	03/10/2019 18:34	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		0.200	8	03/10/2019 18:34	WG1247709
Methyl tert-butyl ether	ND		0.00800	8	03/10/2019 18:34	WG1247709
Naphthalene	0.340	J3	0.100	8	03/10/2019 18:34	WG1247709
n-Propylbenzene	0.0724		0.0400	8	03/10/2019 18:34	WG1247709
Styrene	ND		0.100	8	03/10/2019 18:34	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.0200	8	03/10/2019 18:34	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
Tetrachloroethene	9.87		0.0200	8	03/10/2019 18:34	WG1247709
Toluene	ND		0.0400	8	03/10/2019 18:34	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.0200	8	03/10/2019 18:34	WG1247709
1,2,4-Trichlorobenzene	ND	J3	0.100	8	03/10/2019 18:34	WG1247709
1,1,1-Trichloroethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
1,1,2-Trichloroethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
Trichloroethene	0.0894		0.00800	8	03/10/2019 18:34	WG1247709
Trichlorofluoromethane	ND		0.0200	8	03/10/2019 18:34	WG1247709
1,2,3-Trichloropropane	ND		0.100	8	03/10/2019 18:34	WG1247709
1,2,4-Trimethylbenzene	0.601		0.0400	8	03/10/2019 18:34	WG1247709
1,2,3-Trimethylbenzene	0.342		0.0400	8	03/10/2019 18:34	WG1247709
1,3,5-Trimethylbenzene	0.307		0.0400	8	03/10/2019 18:34	WG1247709
Vinyl chloride	ND		0.0200	8	03/10/2019 18:34	WG1247709
Xylenes, Total	0.0581		0.0520	8	03/10/2019 18:34	WG1247709
(S) Toluene-d8	*93.0*		*75.0-131*		*03/10/2019 18:34*	WG1247709
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*03/10/2019 18:34*	WG1247709
(S) 1,2-Dichloroethane-d4	*120*		*70.0-130*		*03/10/2019 18:34*	WG1247709

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.9		1	03/11/2019 16:23	WG1248258

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	03/11/2019 17:20	WG1248332
Acrylonitrile	ND		0.0125	1	03/11/2019 17:20	WG1248332
Benzene	0.00317		0.00100	1	03/11/2019 17:20	WG1248332
Bromobenzene	ND		0.0125	1	03/11/2019 17:20	WG1248332
Bromodichloromethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
Bromoform	ND		0.0250	1	03/11/2019 17:20	WG1248332
Bromomethane	ND		0.0125	1	03/11/2019 17:20	WG1248332
n-Butylbenzene	ND		0.0125	1	03/11/2019 17:20	WG1248332
sec-Butylbenzene	ND		0.0125	1	03/11/2019 17:20	WG1248332
tert-Butylbenzene	ND		0.00500	1	03/11/2019 17:20	WG1248332
Carbon tetrachloride	ND		0.00500	1	03/11/2019 17:20	WG1248332
Chlorobenzene	ND		0.00250	1	03/11/2019 17:20	WG1248332
Chlorodibromomethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
Chloroethane	ND		0.00500	1	03/11/2019 17:20	WG1248332
Chloroform	ND	J4	0.00250	1	03/11/2019 17:20	WG1248332
Chloromethane	ND		0.0125	1	03/11/2019 17:20	WG1248332
2-Chlorotoluene	ND		0.00250	1	03/11/2019 17:20	WG1248332
4-Chlorotoluene	ND		0.00500	1	03/11/2019 17:20	WG1248332
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	03/11/2019 17:20	WG1248332
1,2-Dibromoethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
Dibromomethane	ND		0.00500	1	03/11/2019 17:20	WG1248332
1,2-Dichlorobenzene	ND		0.00500	1	03/11/2019 17:20	WG1248332
1,3-Dichlorobenzene	ND		0.00500	1	03/11/2019 17:20	WG1248332
1,4-Dichlorobenzene	ND		0.00500	1	03/11/2019 17:20	WG1248332
Dichlorodifluoromethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
1,1-Dichloroethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
1,2-Dichloroethane	ND	J4	0.00250	1	03/11/2019 17:20	WG1248332
1,1-Dichloroethene	ND		0.00250	1	03/11/2019 17:20	WG1248332
cis-1,2-Dichloroethene	13.3		0.100	40	03/14/2019 11:34	WG1249515
trans-1,2-Dichloroethene	0.254		0.00500	1	03/11/2019 17:20	WG1248332
1,2-Dichloropropane	ND		0.00500	1	03/11/2019 17:20	WG1248332
1,1-Dichloropropene	ND		0.00250	1	03/11/2019 17:20	WG1248332
1,3-Dichloropropane	ND		0.00500	1	03/11/2019 17:20	WG1248332
cis-1,3-Dichloropropene	ND		0.00250	1	03/11/2019 17:20	WG1248332
trans-1,3-Dichloropropene	ND		0.00500	1	03/11/2019 17:20	WG1248332
2,2-Dichloropropane	ND	J4	0.00250	1	03/11/2019 17:20	WG1248332
Di-isopropyl ether	ND		0.00100	1	03/11/2019 17:20	WG1248332
Ethylbenzene	0.00648		0.00250	1	03/11/2019 17:20	WG1248332
Hexachloro-1,3-butadiene	ND		0.0250	1	03/11/2019 17:20	WG1248332
Isopropylbenzene	0.00269		0.00250	1	03/11/2019 17:20	WG1248332
p-Isopropyltoluene	ND		0.00500	1	03/11/2019 17:20	WG1248332
2-Butanone (MEK)	0.0278		0.0250	1	03/11/2019 17:20	WG1248332
Methylene Chloride	ND		0.0250	1	03/11/2019 17:20	WG1248332
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	03/11/2019 17:20	WG1248332
Methyl tert-butyl ether	ND		0.00100	1	03/11/2019 17:20	WG1248332
Naphthalene	ND		0.0125	1	03/11/2019 17:20	WG1248332
n-Propylbenzene	ND		0.00500	1	03/11/2019 17:20	WG1248332
Styrene	ND		0.0125	1	03/11/2019 17:20	WG1248332
1,1,1,2-Tetrachloroethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
1,1,2,2-Tetrachloroethane	ND		0.00250	1	03/11/2019 17:20	WG1248332

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
Tetrachloroethene	0.239		0.00250	1	03/11/2019 17:20	WG1248332
Toluene	0.0101		0.00500	1	03/11/2019 17:20	WG1248332
1,2,3-Trichlorobenzene	ND		0.00250	1	03/11/2019 17:20	WG1248332
1,2,4-Trichlorobenzene	ND		0.0125	1	03/11/2019 17:20	WG1248332
1,1,1-Trichloroethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
1,1,2-Trichloroethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
Trichloroethene	0.0256		0.00100	1	03/11/2019 17:20	WG1248332
Trichlorofluoromethane	ND		0.00250	1	03/11/2019 17:20	WG1248332
1,2,3-Trichloropropane	ND		0.0125	1	03/11/2019 17:20	WG1248332
1,2,4-Trimethylbenzene	0.0198		0.00500	1	03/11/2019 17:20	WG1248332
1,2,3-Trimethylbenzene	0.0159		0.00500	1	03/11/2019 17:20	WG1248332
1,3,5-Trimethylbenzene	0.00837		0.00500	1	03/11/2019 17:20	WG1248332
Vinyl chloride	0.270		0.00250	1	03/11/2019 17:20	WG1248332
Xylenes, Total	0.0257		0.00650	1	03/11/2019 17:20	WG1248332
(S) Toluene-d8	*91.5*		*75.0-131*		*03/11/2019 17:20*	WG1248332
(S) Toluene-d8	*96.0*		*75.0-131*		*03/14/2019 11:34*	WG1249515
(S) 4-Bromofluorobenzene	*99.0*		*67.0-138*		*03/11/2019 17:20*	WG1248332
(S) 4-Bromofluorobenzene	*87.8*		*67.0-138*		*03/14/2019 11:34*	WG1249515
(S) 1,2-Dichloroethane-d4	*92.1*		*70.0-130*		*03/11/2019 17:20*	WG1248332
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*03/14/2019 11:34*	WG1249515

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	90.8		1	03/11/2019 16:23	WG1248258

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.200	8	03/10/2019 19:11	WG1247709
Acrylonitrile	ND		0.100	8	03/10/2019 19:11	WG1247709
Benzene	ND		0.00800	8	03/10/2019 19:11	WG1247709
Bromobenzene	ND	J4	0.100	8	03/10/2019 19:11	WG1247709
Bromodichloromethane	ND	J4	0.0200	8	03/10/2019 19:11	WG1247709
Bromoform	ND		0.200	8	03/10/2019 19:11	WG1247709
Bromomethane	ND		0.100	8	03/10/2019 19:11	WG1247709
n-Butylbenzene	ND		0.100	8	03/10/2019 19:11	WG1247709
sec-Butylbenzene	ND		0.100	8	03/10/2019 19:11	WG1247709
tert-Butylbenzene	ND		0.0400	8	03/10/2019 19:11	WG1247709
Carbon tetrachloride	ND		0.0400	8	03/10/2019 19:11	WG1247709
Chlorobenzene	ND		0.0200	8	03/10/2019 19:11	WG1247709
Chlorodibromomethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
Chloroethane	ND		0.0400	8	03/10/2019 19:11	WG1247709
Chloroform	ND		0.0200	8	03/10/2019 19:11	WG1247709
Chloromethane	ND		0.100	8	03/10/2019 19:11	WG1247709
2-Chlorotoluene	ND	J4	0.0200	8	03/10/2019 19:11	WG1247709
4-Chlorotoluene	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	0.200	8	03/10/2019 19:11	WG1247709
1,2-Dibromoethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
Dibromomethane	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,2-Dichlorobenzene	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,3-Dichlorobenzene	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,4-Dichlorobenzene	ND		0.0400	8	03/10/2019 19:11	WG1247709
Dichlorodifluoromethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
1,1-Dichloroethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
1,2-Dichloroethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
1,1-Dichloroethene	ND		0.0200	8	03/10/2019 19:11	WG1247709
cis-1,2-Dichloroethene	0.320		0.0200	8	03/10/2019 19:11	WG1247709
trans-1,2-Dichloroethene	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,2-Dichloropropane	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,1-Dichloropropene	ND		0.0200	8	03/10/2019 19:11	WG1247709
1,3-Dichloropropane	ND		0.0400	8	03/10/2019 19:11	WG1247709
cis-1,3-Dichloropropene	ND		0.0200	8	03/10/2019 19:11	WG1247709
trans-1,3-Dichloropropene	ND		0.0400	8	03/10/2019 19:11	WG1247709
2,2-Dichloropropane	ND		0.0200	8	03/10/2019 19:11	WG1247709
Di-isopropyl ether	ND		0.00800	8	03/10/2019 19:11	WG1247709
Ethylbenzene	ND		0.0200	8	03/10/2019 19:11	WG1247709
Hexachloro-1,3-butadiene	ND		0.200	8	03/10/2019 19:11	WG1247709
Isopropylbenzene	ND		0.0200	8	03/10/2019 19:11	WG1247709
p-Isopropyltoluene	ND		0.0400	8	03/10/2019 19:11	WG1247709
2-Butanone (MEK)	ND		0.200	8	03/10/2019 19:11	WG1247709
Methylene Chloride	ND		0.200	8	03/10/2019 19:11	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		0.200	8	03/10/2019 19:11	WG1247709
Methyl tert-butyl ether	ND		0.00800	8	03/10/2019 19:11	WG1247709
Naphthalene	ND	J3	0.100	8	03/10/2019 19:11	WG1247709
n-Propylbenzene	ND		0.0400	8	03/10/2019 19:11	WG1247709
Styrene	ND		0.100	8	03/10/2019 19:11	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.0200	8	03/10/2019 19:11	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
Tetrachloroethene	359		2.00	800	03/13/2019 17:07	WG1249192
Toluene	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.0200	8	03/10/2019 19:11	WG1247709
1,2,4-Trichlorobenzene	ND	J3	0.100	8	03/10/2019 19:11	WG1247709
1,1,1-Trichloroethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
1,1,2-Trichloroethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
Trichloroethene	7.37		0.00800	8	03/10/2019 19:11	WG1247709
Trichlorofluoromethane	ND		0.0200	8	03/10/2019 19:11	WG1247709
1,2,3-Trichloropropane	ND		0.100	8	03/10/2019 19:11	WG1247709
1,2,4-Trimethylbenzene	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,2,3-Trimethylbenzene	ND		0.0400	8	03/10/2019 19:11	WG1247709
1,3,5-Trimethylbenzene	ND		0.0400	8	03/10/2019 19:11	WG1247709
Vinyl chloride	ND		0.0200	8	03/10/2019 19:11	WG1247709
Xylenes, Total	ND		0.0520	8	03/10/2019 19:11	WG1247709
(S) Toluene-d8	*94.4*		*75.0-131*		*03/10/2019 19:11*	WG1247709
(S) Toluene-d8	*97.2*		*75.0-131*		*03/13/2019 17:07*	WG1249192
(S) 4-Bromofluorobenzene	*92.4*		*67.0-138*		*03/10/2019 19:11*	WG1247709
(S) 4-Bromofluorobenzene	*89.3*		*67.0-138*		*03/13/2019 17:07*	WG1249192
(S) 1,2-Dichloroethane-d4	*121*		*70.0-130*		*03/10/2019 19:11*	WG1247709
(S) 1,2-Dichloroethane-d4	*118*		*70.0-130*		*03/13/2019 17:07*	WG1249192

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	86.8		1	03/11/2019 16:23	WG1248258

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		5.00	200	03/10/2019 19:30	WG1247709
Acrylonitrile	ND		2.50	200	03/10/2019 19:30	WG1247709
Benzene	ND		0.200	200	03/10/2019 19:30	WG1247709
Bromobenzene	ND	J4	2.50	200	03/10/2019 19:30	WG1247709
Bromodichloromethane	ND	J4	0.500	200	03/10/2019 19:30	WG1247709
Bromoform	ND		5.00	200	03/10/2019 19:30	WG1247709
Bromomethane	ND		2.50	200	03/10/2019 19:30	WG1247709
n-Butylbenzene	ND		2.50	200	03/10/2019 19:30	WG1247709
sec-Butylbenzene	ND		2.50	200	03/10/2019 19:30	WG1247709
tert-Butylbenzene	ND		1.00	200	03/10/2019 19:30	WG1247709
Carbon tetrachloride	ND		1.00	200	03/10/2019 19:30	WG1247709
Chlorobenzene	ND		0.500	200	03/10/2019 19:30	WG1247709
Chlorodibromomethane	ND		0.500	200	03/10/2019 19:30	WG1247709
Chloroethane	ND		1.00	200	03/10/2019 19:30	WG1247709
Chloroform	ND		0.500	200	03/10/2019 19:30	WG1247709
Chloromethane	ND		2.50	200	03/10/2019 19:30	WG1247709
2-Chlorotoluene	ND	J4	0.500	200	03/10/2019 19:30	WG1247709
4-Chlorotoluene	ND		1.00	200	03/10/2019 19:30	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	5.00	200	03/10/2019 19:30	WG1247709
1,2-Dibromoethane	ND		0.500	200	03/10/2019 19:30	WG1247709
Dibromomethane	ND		1.00	200	03/10/2019 19:30	WG1247709
1,2-Dichlorobenzene	ND		1.00	200	03/10/2019 19:30	WG1247709
1,3-Dichlorobenzene	ND		1.00	200	03/10/2019 19:30	WG1247709
1,4-Dichlorobenzene	ND		1.00	200	03/10/2019 19:30	WG1247709
Dichlorodifluoromethane	ND		0.500	200	03/10/2019 19:30	WG1247709
1,1-Dichloroethane	ND		0.500	200	03/10/2019 19:30	WG1247709
1,2-Dichloroethane	ND		0.500	200	03/10/2019 19:30	WG1247709
1,1-Dichloroethene	ND		0.500	200	03/10/2019 19:30	WG1247709
cis-1,2-Dichloroethene	1.83		0.500	200	03/10/2019 19:30	WG1247709
trans-1,2-Dichloroethene	ND		1.00	200	03/10/2019 19:30	WG1247709
1,2-Dichloropropane	ND		1.00	200	03/10/2019 19:30	WG1247709
1,1-Dichloropropene	ND		0.500	200	03/10/2019 19:30	WG1247709
1,3-Dichloropropane	ND		1.00	200	03/10/2019 19:30	WG1247709
cis-1,3-Dichloropropene	ND		0.500	200	03/10/2019 19:30	WG1247709
trans-1,3-Dichloropropene	ND		1.00	200	03/10/2019 19:30	WG1247709
2,2-Dichloropropane	ND		0.500	200	03/10/2019 19:30	WG1247709
Di-isopropyl ether	ND		0.200	200	03/10/2019 19:30	WG1247709
Ethylbenzene	ND		0.500	200	03/10/2019 19:30	WG1247709
Hexachloro-1,3-butadiene	ND		5.00	200	03/10/2019 19:30	WG1247709
Isopropylbenzene	ND		0.500	200	03/10/2019 19:30	WG1247709
p-Isopropyltoluene	2.14		1.00	200	03/10/2019 19:30	WG1247709
2-Butanone (MEK)	ND		5.00	200	03/10/2019 19:30	WG1247709
Methylene Chloride	ND		5.00	200	03/10/2019 19:30	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		5.00	200	03/10/2019 19:30	WG1247709
Methyl tert-butyl ether	ND		0.200	200	03/10/2019 19:30	WG1247709
Naphthalene	7.58	J3	2.50	200	03/10/2019 19:30	WG1247709
n-Propylbenzene	1.19		1.00	200	03/10/2019 19:30	WG1247709
Styrene	ND		2.50	200	03/10/2019 19:30	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.500	200	03/10/2019 19:30	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.500	200	03/10/2019 19:30	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.500	200	03/10/2019 19:30	WG1247709
Tetrachloroethene	4270		50.0	20000	03/11/2019 18:29	WG1248083
Toluene	ND		1.00	200	03/10/2019 19:30	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.500	200	03/10/2019 19:30	WG1247709
1,2,4-Trichlorobenzene	ND	J3	2.50	200	03/10/2019 19:30	WG1247709
1,1,1-Trichloroethane	4.31		0.500	200	03/10/2019 19:30	WG1247709
1,1,2-Trichloroethane	ND		0.500	200	03/10/2019 19:30	WG1247709
Trichloroethene	52.2		0.200	200	03/10/2019 19:30	WG1247709
Trichlorofluoromethane	ND		0.500	200	03/10/2019 19:30	WG1247709
1,2,3-Trichloropropane	ND		2.50	200	03/10/2019 19:30	WG1247709
1,2,4-Trimethylbenzene	11.2		1.00	200	03/10/2019 19:30	WG1247709
1,2,3-Trimethylbenzene	7.56		1.00	200	03/10/2019 19:30	WG1247709
1,3,5-Trimethylbenzene	4.15		1.00	200	03/10/2019 19:30	WG1247709
Vinyl chloride	ND		0.500	200	03/10/2019 19:30	WG1247709
Xylenes, Total	2.88		1.30	200	03/10/2019 19:30	WG1247709
(S) Toluene-d8	*96.0*		*75.0-131*		*03/10/2019 19:30*	WG1247709
(S) Toluene-d8	*105*		*75.0-131*		*03/11/2019 18:29*	WG1248083
(S) 4-Bromofluorobenzene	*96.9*		*67.0-138*		*03/10/2019 19:30*	WG1247709
(S) 4-Bromofluorobenzene	*99.9*		*67.0-138*		*03/11/2019 18:29*	WG1248083
(S) 1,2-Dichloroethane-d4	*118*		*70.0-130*		*03/10/2019 19:30*	WG1247709
(S) 1,2-Dichloroethane-d4	*99.9*		*70.0-130*		*03/11/2019 18:29*	WG1248083

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.6		1	03/11/2019 16:23	WG1248258

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	03/10/2019 15:07	WG1247709
Acrylonitrile	ND		0.0125	1	03/10/2019 15:07	WG1247709
Benzene	0.0170		0.00100	1	03/10/2019 15:07	WG1247709
Bromobenzene	ND	J4	0.0125	1	03/10/2019 15:07	WG1247709
Bromodichloromethane	ND	J4	0.00250	1	03/10/2019 15:07	WG1247709
Bromoform	ND		0.0250	1	03/10/2019 15:07	WG1247709
Bromomethane	ND		0.0125	1	03/10/2019 15:07	WG1247709
n-Butylbenzene	ND		0.0125	1	03/10/2019 15:07	WG1247709
sec-Butylbenzene	ND		0.0125	1	03/10/2019 15:07	WG1247709
tert-Butylbenzene	ND		0.00500	1	03/10/2019 15:07	WG1247709
Carbon tetrachloride	ND		0.00500	1	03/10/2019 15:07	WG1247709
Chlorobenzene	ND		0.00250	1	03/10/2019 15:07	WG1247709
Chlorodibromomethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
Chloroethane	ND		0.00500	1	03/10/2019 15:07	WG1247709
Chloroform	ND		0.00250	1	03/10/2019 15:07	WG1247709
Chloromethane	ND		0.0125	1	03/10/2019 15:07	WG1247709
2-Chlorotoluene	ND	J4	0.00250	1	03/10/2019 15:07	WG1247709
4-Chlorotoluene	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	0.0250	1	03/10/2019 15:07	WG1247709
1,2-Dibromoethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
Dibromomethane	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,2-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,3-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,4-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:07	WG1247709
Dichlorodifluoromethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
1,1-Dichloroethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
1,2-Dichloroethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
1,1-Dichloroethene	ND		0.00250	1	03/10/2019 15:07	WG1247709
cis-1,2-Dichloroethene	ND		0.00250	1	03/10/2019 15:07	WG1247709
trans-1,2-Dichloroethene	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,2-Dichloropropane	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,1-Dichloropropene	ND		0.00250	1	03/10/2019 15:07	WG1247709
1,3-Dichloropropane	ND		0.00500	1	03/10/2019 15:07	WG1247709
cis-1,3-Dichloropropene	ND		0.00250	1	03/10/2019 15:07	WG1247709
trans-1,3-Dichloropropene	ND		0.00500	1	03/10/2019 15:07	WG1247709
2,2-Dichloropropane	ND		0.00250	1	03/10/2019 15:07	WG1247709
Di-isopropyl ether	ND		0.00100	1	03/10/2019 15:07	WG1247709
Ethylbenzene	0.00359		0.00250	1	03/10/2019 15:07	WG1247709
Hexachloro-1,3-butadiene	ND		0.0250	1	03/10/2019 15:07	WG1247709
Isopropylbenzene	ND		0.00250	1	03/10/2019 15:07	WG1247709
p-Isopropyltoluene	ND		0.00500	1	03/10/2019 15:07	WG1247709
2-Butanone (MEK)	ND		0.0250	1	03/10/2019 15:07	WG1247709
Methylene Chloride	ND		0.0250	1	03/10/2019 15:07	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	03/10/2019 15:07	WG1247709
Methyl tert-butyl ether	ND		0.00100	1	03/10/2019 15:07	WG1247709
Naphthalene	ND	J3	0.0125	1	03/10/2019 15:07	WG1247709
n-Propylbenzene	ND		0.00500	1	03/10/2019 15:07	WG1247709
Styrene	ND		0.0125	1	03/10/2019 15:07	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.00250	1	03/10/2019 15:07	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
Tetrachloroethene	0.0580		0.00250	1	03/10/2019 15:07	WG1247709
Toluene	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.00250	1	03/10/2019 15:07	WG1247709
1,2,4-Trichlorobenzene	ND	J3	0.0125	1	03/10/2019 15:07	WG1247709
1,1,1-Trichloroethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
1,1,2-Trichloroethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
Trichloroethene	0.00204		0.00100	1	03/10/2019 15:07	WG1247709
Trichlorofluoromethane	ND		0.00250	1	03/10/2019 15:07	WG1247709
1,2,3-Trichloropropane	ND		0.0125	1	03/10/2019 15:07	WG1247709
1,2,4-Trimethylbenzene	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,2,3-Trimethylbenzene	ND		0.00500	1	03/10/2019 15:07	WG1247709
1,3,5-Trimethylbenzene	ND		0.00500	1	03/10/2019 15:07	WG1247709
Vinyl chloride	ND		0.00250	1	03/10/2019 15:07	WG1247709
Xylenes, Total	0.0270		0.00650	1	03/10/2019 15:07	WG1247709
(S) Toluene-d8	*99.9*		*75.0-131*		*03/10/2019 15:07*	WG1247709
(S) 4-Bromofluorobenzene	*86.5*		*67.0-138*		*03/10/2019 15:07*	WG1247709
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*03/10/2019 15:07*	WG1247709

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	84.5		1	03/11/2019 16:23	WG1248258

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	03/10/2019 15:26	WG1247709
Acrylonitrile	ND		0.0125	1	03/10/2019 15:26	WG1247709
Benzene	0.0289		0.00100	1	03/10/2019 15:26	WG1247709
Bromobenzene	ND	J4	0.0125	1	03/10/2019 15:26	WG1247709
Bromodichloromethane	ND	J4	0.00250	1	03/10/2019 15:26	WG1247709
Bromoform	ND		0.0250	1	03/10/2019 15:26	WG1247709
Bromomethane	ND		0.0125	1	03/10/2019 15:26	WG1247709
n-Butylbenzene	ND		0.0125	1	03/10/2019 15:26	WG1247709
sec-Butylbenzene	ND		0.0125	1	03/10/2019 15:26	WG1247709
tert-Butylbenzene	ND		0.00500	1	03/10/2019 15:26	WG1247709
Carbon tetrachloride	ND		0.00500	1	03/10/2019 15:26	WG1247709
Chlorobenzene	ND		0.00250	1	03/10/2019 15:26	WG1247709
Chlorodibromomethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
Chloroethane	ND		0.00500	1	03/10/2019 15:26	WG1247709
Chloroform	ND		0.00250	1	03/10/2019 15:26	WG1247709
Chloromethane	ND		0.0125	1	03/10/2019 15:26	WG1247709
2-Chlorotoluene	ND	J4	0.00250	1	03/10/2019 15:26	WG1247709
4-Chlorotoluene	ND		0.00500	1	03/10/2019 15:26	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	0.0250	1	03/10/2019 15:26	WG1247709
1,2-Dibromoethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
Dibromomethane	ND		0.00500	1	03/10/2019 15:26	WG1247709
1,2-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:26	WG1247709
1,3-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:26	WG1247709
1,4-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:26	WG1247709
Dichlorodifluoromethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
1,1-Dichloroethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
1,2-Dichloroethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
1,1-Dichloroethene	ND		0.00250	1	03/10/2019 15:26	WG1247709
cis-1,2-Dichloroethene	0.0609		0.00250	1	03/10/2019 15:26	WG1247709
trans-1,2-Dichloroethene	0.00763		0.00500	1	03/10/2019 15:26	WG1247709
1,2-Dichloropropane	ND		0.00500	1	03/10/2019 15:26	WG1247709
1,1-Dichloropropene	ND		0.00250	1	03/10/2019 15:26	WG1247709
1,3-Dichloropropane	ND		0.00500	1	03/10/2019 15:26	WG1247709
cis-1,3-Dichloropropene	ND		0.00250	1	03/10/2019 15:26	WG1247709
trans-1,3-Dichloropropene	ND		0.00500	1	03/10/2019 15:26	WG1247709
2,2-Dichloropropane	ND		0.00250	1	03/10/2019 15:26	WG1247709
Di-isopropyl ether	ND		0.00100	1	03/10/2019 15:26	WG1247709
Ethylbenzene	0.0175		0.00250	1	03/10/2019 15:26	WG1247709
Hexachloro-1,3-butadiene	ND		0.0250	1	03/10/2019 15:26	WG1247709
Isopropylbenzene	ND		0.00250	1	03/10/2019 15:26	WG1247709
p-Isopropyltoluene	ND		0.00500	1	03/10/2019 15:26	WG1247709
2-Butanone (MEK)	ND		0.0250	1	03/10/2019 15:26	WG1247709
Methylene Chloride	ND		0.0250	1	03/10/2019 15:26	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	03/10/2019 15:26	WG1247709
Methyl tert-butyl ether	ND		0.00100	1	03/10/2019 15:26	WG1247709
Naphthalene	ND	J3	0.0125	1	03/10/2019 15:26	WG1247709
n-Propylbenzene	ND		0.00500	1	03/10/2019 15:26	WG1247709
Styrene	ND		0.0125	1	03/10/2019 15:26	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.00250	1	03/10/2019 15:26	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
Tetrachloroethene	0.424		0.00250	1	03/10/2019 15:26	WG1247709
Toluene	0.00533		0.00500	1	03/10/2019 15:26	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.00250	1	03/10/2019 15:26	WG1247709
1,2,4-Trichlorobenzene	ND	J3	0.0125	1	03/10/2019 15:26	WG1247709
1,1,1-Trichloroethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
1,1,2-Trichloroethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
Trichloroethene	0.250		0.00100	1	03/10/2019 15:26	WG1247709
Trichlorofluoromethane	ND		0.00250	1	03/10/2019 15:26	WG1247709
1,2,3-Trichloropropane	ND		0.0125	1	03/10/2019 15:26	WG1247709
1,2,4-Trimethylbenzene	0.0125		0.00500	1	03/10/2019 15:26	WG1247709
1,2,3-Trimethylbenzene	0.00748		0.00500	1	03/10/2019 15:26	WG1247709
1,3,5-Trimethylbenzene	ND		0.00500	1	03/10/2019 15:26	WG1247709
Vinyl chloride	ND		0.00250	1	03/10/2019 15:26	WG1247709
Xylenes, Total	0.0406		0.00650	1	03/10/2019 15:26	WG1247709
(S) Toluene-d8	*97.2*		*75.0-131*		*03/10/2019 15:26*	WG1247709
(S) 4-Bromofluorobenzene	*89.2*		*67.0-138*		*03/10/2019 15:26*	WG1247709
(S) 1,2-Dichloroethane-d4	*113*		*70.0-130*		*03/10/2019 15:26*	WG1247709

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	98.3		1	03/11/2019 16:23	WG1248258

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		1.00	40	03/10/2019 19:49	WG1247709
Acrylonitrile	ND		0.500	40	03/10/2019 19:49	WG1247709
Benzene	ND		0.0400	40	03/10/2019 19:49	WG1247709
Bromobenzene	ND	J4	0.500	40	03/10/2019 19:49	WG1247709
Bromodichloromethane	ND	J4	0.100	40	03/10/2019 19:49	WG1247709
Bromoform	ND		1.00	40	03/10/2019 19:49	WG1247709
Bromomethane	ND		0.500	40	03/10/2019 19:49	WG1247709
n-Butylbenzene	ND		0.500	40	03/10/2019 19:49	WG1247709
sec-Butylbenzene	ND		0.500	40	03/10/2019 19:49	WG1247709
tert-Butylbenzene	ND		0.200	40	03/10/2019 19:49	WG1247709
Carbon tetrachloride	ND		0.200	40	03/10/2019 19:49	WG1247709
Chlorobenzene	ND		0.100	40	03/10/2019 19:49	WG1247709
Chlorodibromomethane	ND		0.100	40	03/10/2019 19:49	WG1247709
Chloroethane	ND		0.200	40	03/10/2019 19:49	WG1247709
Chloroform	ND		0.100	40	03/10/2019 19:49	WG1247709
Chloromethane	ND		0.500	40	03/10/2019 19:49	WG1247709
2-Chlorotoluene	ND	J4	0.100	40	03/10/2019 19:49	WG1247709
4-Chlorotoluene	ND		0.200	40	03/10/2019 19:49	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	1.00	40	03/10/2019 19:49	WG1247709
1,2-Dibromoethane	ND		0.100	40	03/10/2019 19:49	WG1247709
Dibromomethane	ND		0.200	40	03/10/2019 19:49	WG1247709
1,2-Dichlorobenzene	ND		0.200	40	03/10/2019 19:49	WG1247709
1,3-Dichlorobenzene	ND		0.200	40	03/10/2019 19:49	WG1247709
1,4-Dichlorobenzene	ND		0.200	40	03/10/2019 19:49	WG1247709
Dichlorodifluoromethane	ND		0.100	40	03/10/2019 19:49	WG1247709
1,1-Dichloroethane	ND		0.100	40	03/10/2019 19:49	WG1247709
1,2-Dichloroethane	ND		0.100	40	03/10/2019 19:49	WG1247709
1,1-Dichloroethene	ND		0.100	40	03/10/2019 19:49	WG1247709
cis-1,2-Dichloroethene	ND		0.100	40	03/10/2019 19:49	WG1247709
trans-1,2-Dichloroethene	ND		0.200	40	03/10/2019 19:49	WG1247709
1,2-Dichloropropane	ND		0.200	40	03/10/2019 19:49	WG1247709
1,1-Dichloropropene	ND		0.100	40	03/10/2019 19:49	WG1247709
1,3-Dichloropropane	ND		0.200	40	03/10/2019 19:49	WG1247709
cis-1,3-Dichloropropene	ND		0.100	40	03/10/2019 19:49	WG1247709
trans-1,3-Dichloropropene	ND		0.200	40	03/10/2019 19:49	WG1247709
2,2-Dichloropropane	ND		0.100	40	03/10/2019 19:49	WG1247709
Di-isopropyl ether	ND		0.0400	40	03/10/2019 19:49	WG1247709
Ethylbenzene	ND		0.100	40	03/10/2019 19:49	WG1247709
Hexachloro-1,3-butadiene	ND		1.00	40	03/10/2019 19:49	WG1247709
Isopropylbenzene	ND		0.100	40	03/10/2019 19:49	WG1247709
p-Isopropyltoluene	ND		0.200	40	03/10/2019 19:49	WG1247709
2-Butanone (MEK)	ND		1.00	40	03/10/2019 19:49	WG1247709
Methylene Chloride	ND		1.00	40	03/10/2019 19:49	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		1.00	40	03/10/2019 19:49	WG1247709
Methyl tert-butyl ether	ND		0.0400	40	03/10/2019 19:49	WG1247709
Naphthalene	ND	J3	0.500	40	03/10/2019 19:49	WG1247709
n-Propylbenzene	ND		0.200	40	03/10/2019 19:49	WG1247709
Styrene	ND		0.500	40	03/10/2019 19:49	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.100	40	03/10/2019 19:49	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.100	40	03/10/2019 19:49	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.100	40	03/10/2019 19:49	WG1247709
Tetrachloroethene	1160		2.00	800	03/11/2019 18:47	WG1248083
Toluene	ND		0.200	40	03/10/2019 19:49	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.100	40	03/10/2019 19:49	WG1247709
1,2,4-Trichlorobenzene	ND	J3	0.500	40	03/10/2019 19:49	WG1247709
1,1,1-Trichloroethane	ND		0.100	40	03/10/2019 19:49	WG1247709
1,1,2-Trichloroethane	ND		0.100	40	03/10/2019 19:49	WG1247709
Trichloroethene	0.468		0.0400	40	03/10/2019 19:49	WG1247709
Trichlorofluoromethane	ND		0.100	40	03/10/2019 19:49	WG1247709
1,2,3-Trichloropropane	ND		0.500	40	03/10/2019 19:49	WG1247709
1,2,4-Trimethylbenzene	ND		0.200	40	03/10/2019 19:49	WG1247709
1,2,3-Trimethylbenzene	ND		0.200	40	03/10/2019 19:49	WG1247709
1,3,5-Trimethylbenzene	ND		0.200	40	03/10/2019 19:49	WG1247709
Vinyl chloride	ND		0.100	40	03/10/2019 19:49	WG1247709
Xylenes, Total	ND		0.260	40	03/10/2019 19:49	WG1247709
(S) Toluene-d8	*94.8*		*75.0-131*		*03/10/2019 19:49*	WG1247709
(S) Toluene-d8	*104*		*75.0-131*		*03/11/2019 18:47*	WG1248083
(S) 4-Bromofluorobenzene	*97.5*		*67.0-138*		*03/10/2019 19:49*	WG1247709
(S) 4-Bromofluorobenzene	*100*		*67.0-138*		*03/11/2019 18:47*	WG1248083
(S) 1,2-Dichloroethane-d4	*118*		*70.0-130*		*03/10/2019 19:49*	WG1247709
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*03/11/2019 18:47*	WG1248083

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.7		1	03/11/2019 16:07	WG1248261

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		2.00	80	03/10/2019 20:08	WG1247709
Acrylonitrile	ND		1.00	80	03/10/2019 20:08	WG1247709
Benzene	ND		0.0800	80	03/10/2019 20:08	WG1247709
Bromobenzene	ND	J4	1.00	80	03/10/2019 20:08	WG1247709
Bromodichloromethane	ND	J4	0.200	80	03/10/2019 20:08	WG1247709
Bromoform	ND		2.00	80	03/10/2019 20:08	WG1247709
Bromomethane	ND		1.00	80	03/10/2019 20:08	WG1247709
n-Butylbenzene	ND		1.00	80	03/10/2019 20:08	WG1247709
sec-Butylbenzene	ND		1.00	80	03/10/2019 20:08	WG1247709
tert-Butylbenzene	ND		0.400	80	03/10/2019 20:08	WG1247709
Carbon tetrachloride	ND		0.400	80	03/10/2019 20:08	WG1247709
Chlorobenzene	ND		0.200	80	03/10/2019 20:08	WG1247709
Chlorodibromomethane	ND		0.200	80	03/10/2019 20:08	WG1247709
Chloroethane	ND		0.400	80	03/10/2019 20:08	WG1247709
Chloroform	ND		0.200	80	03/10/2019 20:08	WG1247709
Chloromethane	ND		1.00	80	03/10/2019 20:08	WG1247709
2-Chlorotoluene	ND	J4	0.200	80	03/10/2019 20:08	WG1247709
4-Chlorotoluene	ND		0.400	80	03/10/2019 20:08	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	2.00	80	03/10/2019 20:08	WG1247709
1,2-Dibromoethane	ND		0.200	80	03/10/2019 20:08	WG1247709
Dibromomethane	ND		0.400	80	03/10/2019 20:08	WG1247709
1,2-Dichlorobenzene	ND		0.400	80	03/10/2019 20:08	WG1247709
1,3-Dichlorobenzene	ND		0.400	80	03/10/2019 20:08	WG1247709
1,4-Dichlorobenzene	ND		0.400	80	03/10/2019 20:08	WG1247709
Dichlorodifluoromethane	ND		0.200	80	03/10/2019 20:08	WG1247709
1,1-Dichloroethane	ND		0.200	80	03/10/2019 20:08	WG1247709
1,2-Dichloroethane	ND		0.200	80	03/10/2019 20:08	WG1247709
1,1-Dichloroethene	ND		0.200	80	03/10/2019 20:08	WG1247709
cis-1,2-Dichloroethene	ND		0.200	80	03/10/2019 20:08	WG1247709
trans-1,2-Dichloroethene	ND		0.400	80	03/10/2019 20:08	WG1247709
1,2-Dichloropropane	ND		0.400	80	03/10/2019 20:08	WG1247709
1,1-Dichloropropene	ND		0.200	80	03/10/2019 20:08	WG1247709
1,3-Dichloropropane	ND		0.400	80	03/10/2019 20:08	WG1247709
cis-1,3-Dichloropropene	ND		0.200	80	03/10/2019 20:08	WG1247709
trans-1,3-Dichloropropene	ND		0.400	80	03/10/2019 20:08	WG1247709
2,2-Dichloropropane	ND		0.200	80	03/10/2019 20:08	WG1247709
Di-isopropyl ether	ND		0.0800	80	03/10/2019 20:08	WG1247709
Ethylbenzene	ND		0.200	80	03/10/2019 20:08	WG1247709
Hexachloro-1,3-butadiene	ND		2.00	80	03/10/2019 20:08	WG1247709
Isopropylbenzene	ND		0.200	80	03/10/2019 20:08	WG1247709
p-Isopropyltoluene	ND		0.400	80	03/10/2019 20:08	WG1247709
2-Butanone (MEK)	ND		2.00	80	03/10/2019 20:08	WG1247709
Methylene Chloride	ND		2.00	80	03/10/2019 20:08	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		2.00	80	03/10/2019 20:08	WG1247709
Methyl tert-butyl ether	ND		0.0800	80	03/10/2019 20:08	WG1247709
Naphthalene	ND	J3	1.00	80	03/10/2019 20:08	WG1247709
n-Propylbenzene	ND		0.400	80	03/10/2019 20:08	WG1247709
Styrene	ND		1.00	80	03/10/2019 20:08	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.200	80	03/10/2019 20:08	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.200	80	03/10/2019 20:08	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.200	80	03/10/2019 20:08	WG1247709
Tetrachloroethene	420		2.00	800	03/11/2019 19:06	WG1248083
Toluene	ND		0.400	80	03/10/2019 20:08	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.200	80	03/10/2019 20:08	WG1247709
1,2,4-Trichlorobenzene	ND	J3	1.00	80	03/10/2019 20:08	WG1247709
1,1,1-Trichloroethane	ND		0.200	80	03/10/2019 20:08	WG1247709
1,1,2-Trichloroethane	ND		0.200	80	03/10/2019 20:08	WG1247709
Trichloroethene	1.27		0.0800	80	03/10/2019 20:08	WG1247709
Trichlorofluoromethane	ND		0.200	80	03/10/2019 20:08	WG1247709
1,2,3-Trichloropropane	ND		1.00	80	03/10/2019 20:08	WG1247709
1,2,4-Trimethylbenzene	1.89		0.400	80	03/10/2019 20:08	WG1247709
1,2,3-Trimethylbenzene	1.46		0.400	80	03/10/2019 20:08	WG1247709
1,3,5-Trimethylbenzene	0.713		0.400	80	03/10/2019 20:08	WG1247709
Vinyl chloride	ND		0.200	80	03/10/2019 20:08	WG1247709
Xylenes, Total	ND		0.520	80	03/10/2019 20:08	WG1247709
(S) Toluene-d8	*91.8*		*75.0-131*		*03/10/2019 20:08*	WG1247709
(S) Toluene-d8	*104*		*75.0-131*		*03/11/2019 19:06*	WG1248083
(S) 4-Bromofluorobenzene	*94.7*		*67.0-138*		*03/10/2019 20:08*	WG1247709
(S) 4-Bromofluorobenzene	*97.2*		*67.0-138*		*03/11/2019 19:06*	WG1248083
(S) 1,2-Dichloroethane-d4	*120*		*70.0-130*		*03/10/2019 20:08*	WG1247709
(S) 1,2-Dichloroethane-d4	*104*		*70.0-130*		*03/11/2019 19:06*	WG1248083

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.0		1	03/11/2019 16:07	WG1248261

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	03/11/2019 17:40	WG1248332
Acrylonitrile	ND		0.0125	1	03/11/2019 17:40	WG1248332
Benzene	0.00229		0.00100	1	03/11/2019 17:40	WG1248332
Bromobenzene	ND		0.0125	1	03/11/2019 17:40	WG1248332
Bromodichloromethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
Bromoform	ND		0.0250	1	03/11/2019 17:40	WG1248332
Bromomethane	ND		0.0125	1	03/11/2019 17:40	WG1248332
n-Butylbenzene	ND		0.0125	1	03/11/2019 17:40	WG1248332
sec-Butylbenzene	ND		0.0125	1	03/11/2019 17:40	WG1248332
tert-Butylbenzene	ND		0.00500	1	03/11/2019 17:40	WG1248332
Carbon tetrachloride	ND		0.00500	1	03/11/2019 17:40	WG1248332
Chlorobenzene	ND		0.00250	1	03/11/2019 17:40	WG1248332
Chlorodibromomethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
Chloroethane	ND		0.00500	1	03/11/2019 17:40	WG1248332
Chloroform	ND	J4	0.00250	1	03/11/2019 17:40	WG1248332
Chloromethane	ND		0.0125	1	03/11/2019 17:40	WG1248332
2-Chlorotoluene	ND		0.00250	1	03/11/2019 17:40	WG1248332
4-Chlorotoluene	ND		0.00500	1	03/11/2019 17:40	WG1248332
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	03/11/2019 17:40	WG1248332
1,2-Dibromoethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
Dibromomethane	ND		0.00500	1	03/11/2019 17:40	WG1248332
1,2-Dichlorobenzene	ND		0.00500	1	03/11/2019 17:40	WG1248332
1,3-Dichlorobenzene	ND		0.00500	1	03/11/2019 17:40	WG1248332
1,4-Dichlorobenzene	ND		0.00500	1	03/11/2019 17:40	WG1248332
Dichlorodifluoromethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
1,1-Dichloroethane	0.0132		0.00250	1	03/11/2019 17:40	WG1248332
1,2-Dichloroethane	ND	J4	0.00250	1	03/11/2019 17:40	WG1248332
1,1-Dichloroethene	ND		0.00250	1	03/11/2019 17:40	WG1248332
cis-1,2-Dichloroethene	0.664		0.00250	1	03/11/2019 17:40	WG1248332
trans-1,2-Dichloroethene	0.0879		0.00500	1	03/11/2019 17:40	WG1248332
1,2-Dichloropropane	ND		0.00500	1	03/11/2019 17:40	WG1248332
1,1-Dichloropropene	ND		0.00250	1	03/11/2019 17:40	WG1248332
1,3-Dichloropropane	ND		0.00500	1	03/11/2019 17:40	WG1248332
cis-1,3-Dichloropropene	ND		0.00250	1	03/11/2019 17:40	WG1248332
trans-1,3-Dichloropropene	ND		0.00500	1	03/11/2019 17:40	WG1248332
2,2-Dichloropropane	ND	J4	0.00250	1	03/11/2019 17:40	WG1248332
Di-isopropyl ether	ND		0.00100	1	03/11/2019 17:40	WG1248332
Ethylbenzene	ND		0.00250	1	03/11/2019 17:40	WG1248332
Hexachloro-1,3-butadiene	ND		0.0250	1	03/11/2019 17:40	WG1248332
Isopropylbenzene	ND		0.00250	1	03/11/2019 17:40	WG1248332
p-Isopropyltoluene	ND		0.00500	1	03/11/2019 17:40	WG1248332
2-Butanone (MEK)	ND		0.0250	1	03/11/2019 17:40	WG1248332
Methylene Chloride	ND		0.0250	1	03/11/2019 17:40	WG1248332
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	03/11/2019 17:40	WG1248332
Methyl tert-butyl ether	ND		0.00100	1	03/11/2019 17:40	WG1248332
Naphthalene	ND		0.0125	1	03/11/2019 17:40	WG1248332
n-Propylbenzene	ND		0.00500	1	03/11/2019 17:40	WG1248332
Styrene	ND		0.0125	1	03/11/2019 17:40	WG1248332
1,1,1,2-Tetrachloroethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
1,1,2,2-Tetrachloroethane	ND		0.00250	1	03/11/2019 17:40	WG1248332

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
Tetrachloroethene	10.7		0.100	40	03/14/2019 11:53	WG1249515
Toluene	ND		0.00500	1	03/11/2019 17:40	WG1248332
1,2,3-Trichlorobenzene	ND		0.00250	1	03/11/2019 17:40	WG1248332
1,2,4-Trichlorobenzene	ND		0.0125	1	03/11/2019 17:40	WG1248332
1,1,1-Trichloroethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
1,1,2-Trichloroethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
Trichloroethene	0.945		0.00100	1	03/11/2019 17:40	WG1248332
Trichlorofluoromethane	ND		0.00250	1	03/11/2019 17:40	WG1248332
1,2,3-Trichloropropane	ND		0.0125	1	03/11/2019 17:40	WG1248332
1,2,4-Trimethylbenzene	ND		0.00500	1	03/11/2019 17:40	WG1248332
1,2,3-Trimethylbenzene	ND		0.00500	1	03/11/2019 17:40	WG1248332
1,3,5-Trimethylbenzene	ND		0.00500	1	03/11/2019 17:40	WG1248332
Vinyl chloride	0.0440		0.00250	1	03/11/2019 17:40	WG1248332
Xylenes, Total	0.00684		0.00650	1	03/11/2019 17:40	WG1248332
(S) Toluene-d8	*94.0*		*75.0-131*		*03/11/2019 17:40*	WG1248332
(S) Toluene-d8	*93.8*		*75.0-131*		*03/14/2019 11:53*	WG1249515
(S) 4-Bromofluorobenzene	*104*		*67.0-138*		*03/11/2019 17:40*	WG1248332
(S) 4-Bromofluorobenzene	*86.4*		*67.0-138*		*03/14/2019 11:53*	WG1249515
(S) 1,2-Dichloroethane-d4	*92.6*		*70.0-130*		*03/11/2019 17:40*	WG1248332
(S) 1,2-Dichloroethane-d4	*112*		*70.0-130*		*03/14/2019 11:53*	WG1249515

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	92.0		1	03/11/2019 16:07	WG1248261

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	03/10/2019 15:45	WG1247709
Acrylonitrile	ND		0.0125	1	03/10/2019 15:45	WG1247709
Benzene	0.0380		0.00100	1	03/10/2019 15:45	WG1247709
Bromobenzene	ND	J4	0.0125	1	03/10/2019 15:45	WG1247709
Bromodichloromethane	ND	J4	0.00250	1	03/10/2019 15:45	WG1247709
Bromoform	ND		0.0250	1	03/10/2019 15:45	WG1247709
Bromomethane	ND		0.0125	1	03/10/2019 15:45	WG1247709
n-Butylbenzene	ND		0.0125	1	03/10/2019 15:45	WG1247709
sec-Butylbenzene	ND		0.0125	1	03/10/2019 15:45	WG1247709
tert-Butylbenzene	ND		0.00500	1	03/10/2019 15:45	WG1247709
Carbon tetrachloride	ND		0.00500	1	03/10/2019 15:45	WG1247709
Chlorobenzene	ND		0.00250	1	03/10/2019 15:45	WG1247709
Chlorodibromomethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
Chloroethane	ND		0.00500	1	03/10/2019 15:45	WG1247709
Chloroform	ND		0.00250	1	03/10/2019 15:45	WG1247709
Chloromethane	ND		0.0125	1	03/10/2019 15:45	WG1247709
2-Chlorotoluene	ND	J4	0.00250	1	03/10/2019 15:45	WG1247709
4-Chlorotoluene	ND		0.00500	1	03/10/2019 15:45	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	0.0250	1	03/10/2019 15:45	WG1247709
1,2-Dibromoethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
Dibromomethane	ND		0.00500	1	03/10/2019 15:45	WG1247709
1,2-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:45	WG1247709
1,3-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:45	WG1247709
1,4-Dichlorobenzene	ND		0.00500	1	03/10/2019 15:45	WG1247709
Dichlorodifluoromethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
1,1-Dichloroethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
1,2-Dichloroethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
1,1-Dichloroethene	ND		0.00250	1	03/10/2019 15:45	WG1247709
cis-1,2-Dichloroethene	ND		0.00250	1	03/10/2019 15:45	WG1247709
trans-1,2-Dichloroethene	ND		0.00500	1	03/10/2019 15:45	WG1247709
1,2-Dichloropropane	ND		0.00500	1	03/10/2019 15:45	WG1247709
1,1-Dichloropropene	ND		0.00250	1	03/10/2019 15:45	WG1247709
1,3-Dichloropropane	ND		0.00500	1	03/10/2019 15:45	WG1247709
cis-1,3-Dichloropropene	ND		0.00250	1	03/10/2019 15:45	WG1247709
trans-1,3-Dichloropropene	ND		0.00500	1	03/10/2019 15:45	WG1247709
2,2-Dichloropropane	ND		0.00250	1	03/10/2019 15:45	WG1247709
Di-isopropyl ether	ND		0.00100	1	03/10/2019 15:45	WG1247709
Ethylbenzene	0.0150		0.00250	1	03/10/2019 15:45	WG1247709
Hexachloro-1,3-butadiene	ND		0.0250	1	03/10/2019 15:45	WG1247709
Isopropylbenzene	0.00647		0.00250	1	03/10/2019 15:45	WG1247709
p-Isopropyltoluene	ND		0.00500	1	03/10/2019 15:45	WG1247709
2-Butanone (MEK)	0.0285		0.0250	1	03/10/2019 15:45	WG1247709
Methylene Chloride	ND		0.0250	1	03/10/2019 15:45	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	03/10/2019 15:45	WG1247709
Methyl tert-butyl ether	ND		0.00100	1	03/10/2019 15:45	WG1247709
Naphthalene	ND	J3	0.0125	1	03/10/2019 15:45	WG1247709
n-Propylbenzene	0.0220		0.00500	1	03/10/2019 15:45	WG1247709
Styrene	ND		0.0125	1	03/10/2019 15:45	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.00250	1	03/10/2019 15:45	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
Tetrachloroethene	0.0568		0.00250	1	03/10/2019 15:45	WG1247709
Toluene	ND		0.00500	1	03/10/2019 15:45	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.00250	1	03/10/2019 15:45	WG1247709
1,2,4-Trichlorobenzene	ND	J3	0.0125	1	03/10/2019 15:45	WG1247709
1,1,1-Trichloroethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
1,1,2-Trichloroethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
Trichloroethene	ND		0.00100	1	03/10/2019 15:45	WG1247709
Trichlorofluoromethane	ND		0.00250	1	03/10/2019 15:45	WG1247709
1,2,3-Trichloropropane	ND		0.0125	1	03/10/2019 15:45	WG1247709
1,2,4-Trimethylbenzene	0.0139		0.00500	1	03/10/2019 15:45	WG1247709
1,2,3-Trimethylbenzene	0.00676		0.00500	1	03/10/2019 15:45	WG1247709
1,3,5-Trimethylbenzene	0.00792		0.00500	1	03/10/2019 15:45	WG1247709
Vinyl chloride	ND		0.00250	1	03/10/2019 15:45	WG1247709
Xylenes, Total	0.0940		0.00650	1	03/10/2019 15:45	WG1247709
(S) Toluene-d8	*97.8*		*75.0-131*		*03/10/2019 15:45*	WG1247709
(S) 4-Bromofluorobenzene	*87.6*		*67.0-138*		*03/10/2019 15:45*	WG1247709
(S) 1,2-Dichloroethane-d4	*113*		*70.0-130*		*03/10/2019 15:45*	WG1247709

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.2		1	03/11/2019 16:07	WG1248261

Wet Chemistry by Method 9071B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Oil & Grease (Hexane Extr)	700		100	1	03/10/2019 13:33	WG1247876

Mercury by Method 7471A

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Mercury	0.126		0.0200	1	03/11/2019 13:55	WG1248027

Metals (ICP) by Method 6010B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Arsenic	ND		2.00	1	03/12/2019 17:49	WG1247085
Barium	52.7		0.500	1	03/12/2019 17:49	WG1247085
Cadmium	ND		0.500	1	03/12/2019 17:49	WG1247085
Chromium	99.1		1.00	1	03/12/2019 17:49	WG1247085
Lead	27.0		0.500	1	03/12/2019 17:49	WG1247085
Selenium	ND		2.00	1	03/12/2019 17:49	WG1247085
Silver	ND		1.00	1	03/12/2019 17:49	WG1247085

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	ND		2.50	25	03/10/2019 20:40	WG1248003
(S) a,a,a-Trifluorotoluene(FID)	*96.4*		*77.0-120*		*03/10/2019 20:40*	WG1248003

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	03/10/2019 16:04	WG1247709
Acrylonitrile	ND		0.0125	1	03/10/2019 16:04	WG1247709
Benzene	0.00213		0.00100	1	03/10/2019 16:04	WG1247709
Bromobenzene	ND	J4	0.0125	1	03/10/2019 16:04	WG1247709
Bromodichloromethane	ND	J4	0.00250	1	03/10/2019 16:04	WG1247709
Bromoform	ND		0.0250	1	03/10/2019 16:04	WG1247709
Bromomethane	ND		0.0125	1	03/10/2019 16:04	WG1247709
n-Butylbenzene	ND		0.0125	1	03/10/2019 16:04	WG1247709
sec-Butylbenzene	ND		0.0125	1	03/10/2019 16:04	WG1247709
tert-Butylbenzene	ND		0.00500	1	03/10/2019 16:04	WG1247709
Carbon tetrachloride	ND		0.00500	1	03/10/2019 16:04	WG1247709
Chlorobenzene	ND		0.00250	1	03/10/2019 16:04	WG1247709
Chlorodibromomethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
Chloroethane	ND		0.00500	1	03/10/2019 16:04	WG1247709
Chloroform	ND		0.00250	1	03/10/2019 16:04	WG1247709
Chloromethane	ND		0.0125	1	03/10/2019 16:04	WG1247709
2-Chlorotoluene	ND	J4	0.00250	1	03/10/2019 16:04	WG1247709
4-Chlorotoluene	ND		0.00500	1	03/10/2019 16:04	WG1247709
1,2-Dibromo-3-Chloropropane	ND	J4	0.0250	1	03/10/2019 16:04	WG1247709
1,2-Dibromoethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
Dibromomethane	ND		0.00500	1	03/10/2019 16:04	WG1247709

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,2-Dichlorobenzene	ND		0.00500	1	03/10/2019 16:04	WG1247709
1,3-Dichlorobenzene	ND		0.00500	1	03/10/2019 16:04	WG1247709
1,4-Dichlorobenzene	ND		0.00500	1	03/10/2019 16:04	WG1247709
Dichlorodifluoromethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
1,1-Dichloroethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
1,2-Dichloroethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
1,1-Dichloroethene	ND		0.00250	1	03/10/2019 16:04	WG1247709
cis-1,2-Dichloroethene	0.0421		0.00250	1	03/10/2019 16:04	WG1247709
trans-1,2-Dichloroethene	ND		0.00500	1	03/10/2019 16:04	WG1247709
1,2-Dichloropropane	ND		0.00500	1	03/10/2019 16:04	WG1247709
1,1-Dichloropropene	ND		0.00250	1	03/10/2019 16:04	WG1247709
1,3-Dichloropropane	ND		0.00500	1	03/10/2019 16:04	WG1247709
cis-1,3-Dichloropropene	ND		0.00250	1	03/10/2019 16:04	WG1247709
trans-1,3-Dichloropropene	ND		0.00500	1	03/10/2019 16:04	WG1247709
2,2-Dichloropropane	ND		0.00250	1	03/10/2019 16:04	WG1247709
Di-isopropyl ether	ND		0.00100	1	03/10/2019 16:04	WG1247709
Ethylbenzene	ND		0.00250	1	03/10/2019 16:04	WG1247709
Hexachloro-1,3-butadiene	ND		0.0250	1	03/10/2019 16:04	WG1247709
Isopropylbenzene	ND		0.00250	1	03/10/2019 16:04	WG1247709
p-Isopropyltoluene	ND		0.00500	1	03/10/2019 16:04	WG1247709
2-Butanone (MEK)	ND		0.0250	1	03/10/2019 16:04	WG1247709
Methylene Chloride	ND		0.0250	1	03/10/2019 16:04	WG1247709
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	03/10/2019 16:04	WG1247709
Methyl tert-butyl ether	ND		0.00100	1	03/10/2019 16:04	WG1247709
Naphthalene	ND	J3	0.0125	1	03/10/2019 16:04	WG1247709
n-Propylbenzene	ND		0.00500	1	03/10/2019 16:04	WG1247709
Styrene	ND		0.0125	1	03/10/2019 16:04	WG1247709
1,1,1,2-Tetrachloroethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
1,1,2,2-Tetrachloroethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
Tetrachloroethene	0.444		0.00250	1	03/10/2019 16:04	WG1247709
Toluene	ND		0.00500	1	03/10/2019 16:04	WG1247709
1,2,3-Trichlorobenzene	ND	J3	0.00250	1	03/10/2019 16:04	WG1247709
1,2,4-Trichlorobenzene	ND	J3	0.0125	1	03/10/2019 16:04	WG1247709
1,1,1-Trichloroethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
1,1,2-Trichloroethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
Trichloroethene	0.0357		0.00100	1	03/10/2019 16:04	WG1247709
Trichlorofluoromethane	ND		0.00250	1	03/10/2019 16:04	WG1247709
1,2,3-Trichloropropane	ND		0.0125	1	03/10/2019 16:04	WG1247709
1,2,4-Trimethylbenzene	0.00951		0.00500	1	03/10/2019 16:04	WG1247709
1,2,3-Trimethylbenzene	0.0111		0.00500	1	03/10/2019 16:04	WG1247709
1,3,5-Trimethylbenzene	0.00530		0.00500	1	03/10/2019 16:04	WG1247709
Vinyl chloride	ND		0.00250	1	03/10/2019 16:04	WG1247709
Xylenes, Total	ND		0.00650	1	03/10/2019 16:04	WG1247709
(S) Toluene-d8	*94.0*		*75.0-131*		*03/10/2019 16:04*	WG1247709
(S) 4-Bromofluorobenzene	*98.7*		*67.0-138*		*03/10/2019 16:04*	WG1247709
(S) 1,2-Dichloroethane-d4	*120*		*70.0-130*		*03/10/2019 16:04*	WG1247709

Semi-Volatile Organic Compounds (GC) by Method 8015

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		400	100	03/10/2019 15:13	WG1247915
(S) o-Terphenyl	*72.4*	J7	*18.0-148*		*03/10/2019 15:13*	WG1247915

Sample Narrative:

L1076531-11 WG1247915: Cannot run at lower dilution due to viscosity of extract

Polychlorinated Biphenyls (GC) by Method 8082

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
PCB 1016	ND		0.0170	1	03/11/2019 19:59	WG1247960
PCB 1221	ND		0.0170	1	03/11/2019 19:59	WG1247960
PCB 1232	ND		0.0170	1	03/11/2019 19:59	WG1247960
PCB 1242	ND		0.0170	1	03/11/2019 19:59	WG1247960
PCB 1248	ND		0.0170	1	03/11/2019 19:59	WG1247960
PCB 1254	0.0420	P	0.0170	1	03/11/2019 19:59	WG1247960
PCB 1260	ND		0.0170	1	03/11/2019 19:59	WG1247960
(S) Decachlorobiphenyl	*73.1*		*10.0-135*		*03/11/2019 19:59*	WG1247960
(S) Tetrachloro-m-xylene	*69.8*		*10.0-139*		*03/11/2019 19:59*	WG1247960

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acenaphthene	1.39		0.333	10	03/12/2019 02:48	WG1247941
Acenaphthylene	ND		0.333	10	03/12/2019 02:48	WG1247941
Anthracene	3.36		0.333	10	03/12/2019 02:48	WG1247941
Benzidine	ND		3.33	10	03/12/2019 02:48	WG1247941
Benzo(a)anthracene	6.63		0.333	10	03/12/2019 02:48	WG1247941
Benzo(b)fluoranthene	7.46		0.333	10	03/12/2019 02:48	WG1247941
Benzo(k)fluoranthene	2.41		0.333	10	03/12/2019 02:48	WG1247941
Benzo(g,h,i)perylene	3.24		0.333	10	03/12/2019 02:48	WG1247941
Benzo(a)pyrene	5.44		0.333	10	03/12/2019 02:48	WG1247941
Bis(2-chlorethoxy)methane	ND		3.33	10	03/12/2019 02:48	WG1247941
Bis(2-chloroethyl)ether	ND		3.33	10	03/12/2019 02:48	WG1247941
Bis(2-chloroisopropyl)ether	ND		3.33	10	03/12/2019 02:48	WG1247941
4-Bromophenyl-phenylether	ND		3.33	10	03/12/2019 02:48	WG1247941
2-Chloronaphthalene	ND		0.333	10	03/12/2019 02:48	WG1247941
4-Chlorophenyl-phenylether	ND		3.33	10	03/12/2019 02:48	WG1247941
Chrysene	6.22		0.333	10	03/12/2019 02:48	WG1247941
Dibenz(a,h)anthracene	0.837		0.333	10	03/12/2019 02:48	WG1247941
3,3-Dichlorobenzidine	ND		3.33	10	03/12/2019 02:48	WG1247941
2,4-Dinitrotoluene	ND		3.33	10	03/12/2019 02:48	WG1247941
2,6-Dinitrotoluene	ND		3.33	10	03/12/2019 02:48	WG1247941
Fluoranthene	16.0		0.333	10	03/12/2019 02:48	WG1247941
Fluorene	1.64		0.333	10	03/12/2019 02:48	WG1247941
Hexachlorobenzene	ND		3.33	10	03/12/2019 02:48	WG1247941
Hexachloro-1,3-butadiene	ND		3.33	10	03/12/2019 02:48	WG1247941
Hexachlorocyclopentadiene	ND		3.33	10	03/12/2019 02:48	WG1247941
Hexachloroethane	ND		3.33	10	03/12/2019 02:48	WG1247941
Indeno(1,2,3-cd)pyrene	3.83		0.333	10	03/12/2019 02:48	WG1247941
Isophorone	ND		3.33	10	03/12/2019 02:48	WG1247941
Naphthalene	0.401		0.333	10	03/12/2019 02:48	WG1247941
Nitrobenzene	ND		3.33	10	03/12/2019 02:48	WG1247941
n-Nitrosodimethylamine	ND		3.33	10	03/12/2019 02:48	WG1247941
n-Nitrosodiphenylamine	ND		3.33	10	03/12/2019 02:48	WG1247941
n-Nitrosodi-n-propylamine	ND		3.33	10	03/12/2019 02:48	WG1247941
Phenanthrene	13.0		0.333	10	03/12/2019 02:48	WG1247941
Benzylbutyl phthalate	ND		3.33	10	03/12/2019 02:48	WG1247941
Bis(2-ethylhexyl)phthalate	ND		3.33	10	03/12/2019 02:48	WG1247941
Di-n-butyl phthalate	ND		3.33	10	03/12/2019 02:48	WG1247941
Diethyl phthalate	ND		3.33	10	03/12/2019 02:48	WG1247941
Dimethyl phthalate	ND		3.33	10	03/12/2019 02:48	WG1247941
Di-n-octyl phthalate	ND		3.33	10	03/12/2019 02:48	WG1247941
Pyrene	12.9		0.333	10	03/12/2019 02:48	WG1247941
1,2,4-Trichlorobenzene	ND		3.33	10	03/12/2019 02:48	WG1247941
4-Chloro-3-methylphenol	ND		3.33	10	03/12/2019 02:48	WG1247941

Semi Volatile Organic Compounds (GC/MS) by Method 8270C

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
2-Chlorophenol	ND		3.33	10	03/12/2019 02:48	WG1247941
2,4-Dichlorophenol	ND		3.33	10	03/12/2019 02:48	WG1247941
2,4-Dimethylphenol	ND		3.33	10	03/12/2019 02:48	WG1247941
4,6-Dinitro-2-methylphenol	ND		3.33	10	03/12/2019 02:48	WG1247941
2,4-Dinitrophenol	ND		3.33	10	03/12/2019 02:48	WG1247941
2-Nitrophenol	ND		3.33	10	03/12/2019 02:48	WG1247941
4-Nitrophenol	ND		3.33	10	03/12/2019 02:48	WG1247941
Pentachlorophenol	ND		3.33	10	03/12/2019 02:48	WG1247941
Phenol	ND		3.33	10	03/12/2019 02:48	WG1247941
2,4,6-Trichlorophenol	ND		3.33	10	03/12/2019 02:48	WG1247941
(S) 2-Fluorophenol	*82.8*		*12.0-120*		*03/12/2019 02:48*	WG1247941
(S) Phenol-d5	*71.1*		*10.0-120*		*03/12/2019 02:48*	WG1247941
(S) Nitrobenzene-d5	*84.5*		*10.0-122*		*03/12/2019 02:48*	WG1247941
(S) 2-Fluorobiphenyl	*65.7*		*15.0-120*		*03/12/2019 02:48*	WG1247941
(S) 2,4,6-Tribromophenol	*84.8*		*10.0-127*		*03/12/2019 02:48*	WG1247941
(S) p-Terphenyl-d14	*70.8*		*10.0-120*		*03/12/2019 02:48*	WG1247941

Method Blank (MB)

(MB) R3390726-1 03/11/19 16:23

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1076531-02 Original Sample (OS) • Duplicate (DUP)

(OS) L1076531-02 03/11/19 16:23 • (DUP) R3390726-3 03/11/19 16:23

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	85.9	87.9	1	2.25		10

Laboratory Control Sample (LCS)

(LCS) R3390726-2 03/11/19 16:23

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3390721-1 03/11/19 16:07

Analyte	MB Result %	MB Qualifier	MB MDL %	MB RDL %
Total Solids	0.00100			

L1076574-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1076574-01 03/11/19 16:07 • (DUP) R3390721-3 03/11/19 16:07

Analyte	Original Result %	DUP Result %	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Total Solids	90.0	89.6	1	0.374		10

Laboratory Control Sample (LCS)

(LCS) R3390721-2 03/11/19 16:07

Analyte	Spike Amount %	LCS Result %	LCS Rec. %	Rec. Limits %	LCS Qualifier
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3390242-1 03/10/19 13:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Oil & Grease (Hexane Extr)	U		33.0	100

L1076833-07 Original Sample (OS) • Duplicate (DUP)

(OS) L1076833-07 03/10/19 13:33 • (DUP) R3390242-4 03/10/19 13:33

Analyte	Original Result (dry) mg/kg	DUP Result (dry) mg/kg	Dilution	DUP RPD %	DUP Qualifier	DUP RPD Limits %
Oil & Grease (Hexane Extr)	80.2	91.6	1	13.3	J	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390242-2 03/10/19 13:33 • (LCSD) R3390242-3 03/10/19 13:33

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	4000	3740	3790	93.5	94.8	80.0-120			1.33	20

L1076833-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1076833-07 03/10/19 13:33 • (MS) R3390242-5 03/10/19 13:33 • (MSD) R3390242-6 03/10/19 13:33

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Oil & Grease (Hexane Extr)	4580	80.2	3570	3560	76.3	76.0	1	80.0-120	J6	J6	0.321	20

Method Blank (MB)

(MB) R3390535-1 03/11/19 13:09

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Mercury	U		0.00280	0.0200

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390535-2 03/11/19 13:16 • (LCSD) R3390535-3 03/11/19 13:19

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.476	0.495	95.2	98.9	80.0-120			3.77	20

L1076411-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1076411-03 03/11/19 13:21 • (MS) R3390535-4 03/11/19 13:24 • (MSD) R3390535-5 03/11/19 13:26

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Mercury	0.500	0.158	0.543	0.562	76.9	80.8	1	75.0-125			3.53	20

Method Blank (MB)

(MB) R3391006-1 03/12/19 16:37

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Arsenic	U		0.460	2.00
Barium	U		0.170	0.500
Cadmium	U		0.0700	0.500
Chromium	U		0.140	1.00
Lead	U		0.190	0.500
Selenium	0.911	J	0.620	2.00
Silver	U		0.120	1.00

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391006-2 03/12/19 16:40 • (LCSD) R3391006-3 03/12/19 16:42

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Arsenic	100	97.7	96.8	97.7	96.8	80.0-120			0.875	20
Barium	100	105	105	105	105	80.0-120			0.0272	20
Cadmium	100	100	99.8	100	99.8	80.0-120			0.285	20
Chromium	100	103	103	103	103	80.0-120			0.0134	20
Lead	100	100	100	100	100	80.0-120			0.225	20
Selenium	100	100	100	100	100	80.0-120			0.413	20
Silver	20.0	19.1	19.3	95.7	96.5	80.0-120			0.769	20

L1076145-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1076145-07 03/12/19 16:45 • (MS) R3391006-6 03/12/19 16:52 • (MSD) R3391006-7 03/12/19 16:55

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Arsenic	100	9.29	95.5	102	86.2	92.7	1	75.0-125			6.52	20
Barium	100	155	254	211	99.2	56.3	1	75.0-125		J6	18.4	20
Cadmium	100	ND	92.1	101	91.9	101	1	75.0-125			8.97	20
Chromium	100	10.1	103	110	92.5	99.6	1	75.0-125			6.69	20
Lead	100	29.7	134	119	104	89.2	1	75.0-125			11.9	20
Selenium	100	ND	90.2	99.7	88.6	98.0	1	75.0-125			9.98	20
Silver	20.0	ND	17.8	19.5	88.8	97.6	1	75.0-125			9.38	20

Method Blank (MB)

(MB) R3390470-5 03/10/19 14:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(FID)	*98.5*			*77.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390470-3 03/10/19 13:30 • (LCSD) R3390470-4 03/10/19 13:51

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	6.17	6.18	112	112	72.0-127			0.0847	20
(S) a,a,a-Trifluorotoluene(FID)				*116*	*116*	*77.0-120*				

L1076266-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1076266-01 03/10/19 19:15 • (MS) R3390470-8 03/11/19 00:08 • (MSD) R3390470-9 03/11/19 00:29

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	ND	2.47	3.91	44.4	70.5	1	10.0-151		J3	44.9	28
(S) a,a,a-Trifluorotoluene(FID)					*98.0*	*103*		*77.0-120*				

Method Blank (MB)

(MB) R3390312-3 03/10/19 12:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

Method Blank (MB)

(MB) R3390312-3 03/10/19 12:33

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*98.3*			*75.0-131*
(S) 4-Bromofluorobenzene	*87.9*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*115*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390312-1 03/10/19 10:59 • (LCSD) R3390312-2 03/10/19 11:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.740	0.823	118	132	10.0-160			10.6	31
Acrylonitrile	0.625	0.838	0.861	134	138	45.0-153			2.70	22
Benzene	0.125	0.114	0.111	91.5	88.7	70.0-123			3.09	20
Bromobenzene	0.125	0.158	0.140	127	112	73.0-121	J4		12.5	20
Bromodichloromethane	0.125	0.154	0.146	123	117	73.0-121	J4		4.92	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390312-1 03/10/19 10:59 • (LCSD) R3390312-2 03/10/19 11:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.113	0.118	90.3	94.3	64.0-132			4.26	20
Bromomethane	0.125	0.0911	0.0894	72.9	71.5	56.0-147			1.90	20
n-Butylbenzene	0.125	0.106	0.106	85.1	84.6	68.0-135			0.483	20
sec-Butylbenzene	0.125	0.129	0.119	103	95.4	74.0-130			8.00	20
tert-Butylbenzene	0.125	0.126	0.115	101	91.6	75.0-127			9.34	20
Carbon tetrachloride	0.125	0.142	0.135	114	108	66.0-128			5.08	20
Chlorobenzene	0.125	0.103	0.0966	82.7	77.2	76.0-128			6.78	20
Chlorodibromomethane	0.125	0.134	0.130	107	104	74.0-127			3.42	20
Chloroethane	0.125	0.105	0.101	83.8	80.9	61.0-134			3.51	20
Chloroform	0.125	0.108	0.102	86.1	81.8	72.0-123			5.12	20
Chloromethane	0.125	0.151	0.134	121	108	51.0-138			11.5	20
2-Chlorotoluene	0.125	0.162	0.140	130	112	75.0-124	J4		14.8	20
4-Chlorotoluene	0.125	0.121	0.112	96.5	89.6	75.0-124			7.39	20
1,2-Dibromo-3-Chloropropane	0.125	0.153	0.171	123	137	59.0-130		J4	10.7	20
1,2-Dibromoethane	0.125	0.142	0.135	114	108	74.0-128			4.95	20
Dibromomethane	0.125	0.127	0.131	102	105	75.0-122			2.79	20
1,2-Dichlorobenzene	0.125	0.102	0.103	81.3	82.0	76.0-124			0.931	20
1,3-Dichlorobenzene	0.125	0.117	0.111	93.5	88.9	76.0-125			5.04	20
1,4-Dichlorobenzene	0.125	0.121	0.115	96.5	91.7	77.0-121			5.12	20
Dichlorodifluoromethane	0.125	0.193	0.188	155	150	43.0-156			3.06	20
1,1-Dichloroethane	0.125	0.125	0.120	100	96.0	70.0-127			4.01	20
1,2-Dichloroethane	0.125	0.144	0.139	115	112	65.0-131			3.35	20
1,1-Dichloroethene	0.125	0.130	0.121	104	96.5	65.0-131			7.08	20
cis-1,2-Dichloroethene	0.125	0.101	0.0983	81.0	78.6	73.0-125			2.98	20
trans-1,2-Dichloroethene	0.125	0.111	0.105	88.6	83.9	71.0-125			5.47	20
1,2-Dichloropropane	0.125	0.145	0.140	116	112	74.0-125			3.20	20
1,1-Dichloropropene	0.125	0.114	0.108	90.9	86.5	73.0-125			5.03	20
1,3-Dichloropropane	0.125	0.124	0.119	99.0	95.1	80.0-125			4.07	20
cis-1,3-Dichloropropene	0.125	0.114	0.111	91.2	88.5	76.0-127			2.99	20
trans-1,3-Dichloropropene	0.125	0.118	0.112	94.5	89.2	73.0-127			5.79	20
2,2-Dichloropropane	0.125	0.103	0.108	82.7	86.7	59.0-135			4.71	20
Di-isopropyl ether	0.125	0.105	0.102	84.4	81.7	60.0-136			3.16	20
Ethylbenzene	0.125	0.107	0.0996	85.6	79.7	74.0-126			7.19	20
Hexachloro-1,3-butadiene	0.125	0.107	0.116	85.4	92.7	57.0-150			8.18	20
Isopropylbenzene	0.125	0.0970	0.0965	77.6	77.2	72.0-127			0.516	20
p-Isopropyltoluene	0.125	0.119	0.114	95.6	91.3	72.0-133			4.56	20
2-Butanone (MEK)	0.625	0.835	0.833	134	133	30.0-160			0.295	24
Methylene Chloride	0.125	0.108	0.103	86.6	82.6	68.0-123			4.73	20
4-Methyl-2-pentanone (MIBK)	0.625	0.545	0.534	87.1	85.5	56.0-143			1.94	20
Methyl tert-butyl ether	0.125	0.102	0.0994	81.7	79.6	66.0-132			2.60	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390312-1 03/10/19 10:59 • (LCSD) R3390312-2 03/10/19 11:37

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.126	0.159	101	127	59.0-130		J3	23.4	20
n-Propylbenzene	0.125	0.123	0.110	98.7	87.7	74.0-126			11.8	20
Styrene	0.125	0.121	0.119	97.1	94.9	72.0-127			2.28	20
1,1,1,2-Tetrachloroethane	0.125	0.0995	0.0967	79.6	77.4	74.0-129			2.78	20
1,1,2,2-Tetrachloroethane	0.125	0.119	0.113	95.5	90.5	68.0-128			5.32	20
Tetrachloroethene	0.125	0.103	0.101	82.5	80.8	70.0-136			2.02	20
Toluene	0.125	0.102	0.0976	82.0	78.1	75.0-121			4.89	20
1,1,2-Trichlorotrifluoroethane	0.125	0.120	0.110	95.9	88.3	61.0-139			8.29	20
1,2,3-Trichlorobenzene	0.125	0.0846	0.108	67.7	86.7	59.0-139		J3	24.7	20
1,2,4-Trichlorobenzene	0.125	0.136	0.168	109	134	62.0-137		J3	21.1	20
1,1,1-Trichloroethane	0.125	0.119	0.113	95.5	90.4	69.0-126			5.44	20
1,1,2-Trichloroethane	0.125	0.142	0.136	114	109	78.0-123			4.49	20
Trichloroethene	0.125	0.141	0.136	113	108	76.0-126			3.69	20
Trichlorofluoromethane	0.125	0.115	0.109	92.3	87.0	61.0-142			5.97	20
1,2,3-Trichloropropane	0.125	0.139	0.129	111	103	67.0-129			7.60	20
1,2,3-Trimethylbenzene	0.125	0.141	0.134	113	108	74.0-124			4.79	20
1,2,4-Trimethylbenzene	0.125	0.119	0.114	94.9	91.3	70.0-126			3.89	20
1,3,5-Trimethylbenzene	0.125	0.116	0.106	92.6	85.0	73.0-127			8.55	20
Vinyl chloride	0.125	0.111	0.0977	88.4	78.1	63.0-134			12.3	20
Xylenes, Total	0.375	0.297	0.291	79.2	77.6	72.0-127			2.04	20
(S) Toluene-d8				*93.5*	*92.3*	*75.0-131*				
(S) 4-Bromofluorobenzene				*89.1*	*92.5*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*121*	*122*	*70.0-130*				

Method Blank (MB)

(MB) R3391091-2 03/11/19 15:02

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	*108*			*75.0-131*
(S) 4-Bromofluorobenzene	*93.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*95.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3391091-1 03/11/19 14:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Tetrachloroethene	0.125	0.127	101	70.0-136	
(S) Toluene-d8			*100*	*75.0-131*	
(S) 4-Bromofluorobenzene			*100*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*103*	*70.0-130*	

Method Blank (MB)

(MB) R3391316-3 03/11/19 11:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

Method Blank (MB)

(MB) R3391316-3 03/11/19 11:19

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	0.0109	J	0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*90.0*			*75.0-131*
(S) 4-Bromofluorobenzene	*97.8*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*112*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391316-1 03/11/19 09:46 • (LCSD) R3391316-2 03/11/19 10:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.888	0.881	142	141	10.0-160			0.761	31
Acrylonitrile	0.625	0.727	0.734	116	117	45.0-153			0.876	22
Benzene	0.125	0.134	0.134	107	107	70.0-123			0.394	20
Bromobenzene	0.125	0.113	0.118	90.0	94.8	73.0-121			5.15	20
Bromodichloromethane	0.125	0.135	0.133	108	106	73.0-121			1.33	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391316-1 03/11/19 09:46 • (LCSD) R3391316-2 03/11/19 10:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.114	0.116	91.4	92.6	64.0-132			1.34	20
Bromomethane	0.125	0.127	0.133	102	107	56.0-147			4.62	20
n-Butylbenzene	0.125	0.104	0.103	83.2	82.1	68.0-135			1.27	20
sec-Butylbenzene	0.125	0.120	0.113	95.8	90.6	74.0-130			5.59	20
tert-Butylbenzene	0.125	0.107	0.110	85.4	87.8	75.0-127			2.88	20
Carbon tetrachloride	0.125	0.150	0.150	120	120	66.0-128			0.287	20
Chlorobenzene	0.125	0.102	0.103	81.5	82.4	76.0-128			1.15	20
Chlorodibromomethane	0.125	0.109	0.104	87.1	83.0	74.0-127			4.81	20
Chloroethane	0.125	0.137	0.140	109	112	61.0-134			2.19	20
Chloroform	0.125	0.150	0.158	120	127	72.0-123		J4	5.11	20
Chloromethane	0.125	0.126	0.131	101	105	51.0-138			3.46	20
2-Chlorotoluene	0.125	0.117	0.119	93.3	95.4	75.0-124			2.23	20
4-Chlorotoluene	0.125	0.122	0.120	97.9	95.9	75.0-124			2.06	20
1,2-Dibromo-3-Chloropropane	0.125	0.128	0.111	103	89.1	59.0-130			14.1	20
1,2-Dibromoethane	0.125	0.107	0.104	85.2	83.6	74.0-128			1.97	20
Dibromomethane	0.125	0.143	0.140	114	112	75.0-122			1.95	20
1,2-Dichlorobenzene	0.125	0.112	0.110	89.5	88.3	76.0-124			1.36	20
1,3-Dichlorobenzene	0.125	0.116	0.109	92.8	87.3	76.0-125			6.17	20
1,4-Dichlorobenzene	0.125	0.106	0.107	84.7	85.3	77.0-121			0.727	20
Dichlorodifluoromethane	0.125	0.174	0.172	140	137	43.0-156			1.58	20
1,1-Dichloroethane	0.125	0.141	0.144	112	115	70.0-127			2.66	20
1,2-Dichloroethane	0.125	0.162	0.165	130	132	65.0-131		J4	1.61	20
1,1-Dichloroethene	0.125	0.122	0.126	97.4	101	65.0-131			3.38	20
cis-1,2-Dichloroethene	0.125	0.123	0.124	98.3	99.6	73.0-125			1.26	20
trans-1,2-Dichloroethene	0.125	0.136	0.143	109	114	71.0-125			4.62	20
1,2-Dichloropropane	0.125	0.137	0.142	109	114	74.0-125			3.81	20
1,1-Dichloropropene	0.125	0.145	0.138	116	110	73.0-125			5.18	20
1,3-Dichloropropane	0.125	0.108	0.115	86.7	91.8	80.0-125			5.70	20
cis-1,3-Dichloropropene	0.125	0.128	0.128	103	103	76.0-127			0.00810	20
trans-1,3-Dichloropropene	0.125	0.108	0.108	86.8	86.3	73.0-127			0.532	20
2,2-Dichloropropane	0.125	0.194	0.195	155	156	59.0-135	J4	J4	0.587	20
Di-isopropyl ether	0.125	0.124	0.127	99.3	102	60.0-136			2.51	20
Ethylbenzene	0.125	0.111	0.116	89.0	92.8	74.0-126			4.14	20
Hexachloro-1,3-butadiene	0.125	0.120	0.107	95.7	85.8	57.0-150			10.9	20
Isopropylbenzene	0.125	0.124	0.126	99.2	101	72.0-127			1.72	20
p-Isopropyltoluene	0.125	0.106	0.102	84.9	81.3	72.0-133			4.33	20
2-Butanone (MEK)	0.625	0.716	0.733	115	117	30.0-160			2.32	24
Methylene Chloride	0.125	0.131	0.131	104	105	68.0-123			0.146	20
4-Methyl-2-pentanone (MIBK)	0.625	0.544	0.546	87.1	87.3	56.0-143			0.309	20
Methyl tert-butyl ether	0.125	0.156	0.155	125	124	66.0-132			0.585	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3391316-1 03/11/19 09:46 • (LCSD) R3391316-2 03/11/19 10:06

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.125	0.109	0.109	87.0	87.2	59.0-130			0.274	20
n-Propylbenzene	0.125	0.113	0.116	90.2	93.1	74.0-126			3.19	20
Styrene	0.125	0.109	0.114	87.1	91.3	72.0-127			4.68	20
1,1,1,2-Tetrachloroethane	0.125	0.110	0.107	88.2	85.2	74.0-129			3.38	20
1,1,2,2-Tetrachloroethane	0.125	0.113	0.114	90.6	91.6	68.0-128			1.08	20
Tetrachloroethene	0.125	0.130	0.130	104	104	70.0-136			0.205	20
Toluene	0.125	0.107	0.110	85.9	88.4	75.0-121			2.80	20
1,1,2-Trichlorotrifluoroethane	0.125	0.118	0.133	94.3	107	61.0-139			12.3	20
1,2,3-Trichlorobenzene	0.125	0.100	0.0992	80.3	79.4	59.0-139			1.16	20
1,2,4-Trichlorobenzene	0.125	0.101	0.0946	80.9	75.7	62.0-137			6.74	20
1,1,1-Trichloroethane	0.125	0.152	0.154	121	123	69.0-126			1.50	20
1,1,2-Trichloroethane	0.125	0.107	0.111	86.0	88.9	78.0-123			3.28	20
Trichloroethene	0.125	0.137	0.152	109	122	76.0-126			10.9	20
Trichlorofluoromethane	0.125	0.169	0.168	136	135	61.0-142			0.789	20
1,2,3-Trichloropropane	0.125	0.130	0.126	104	101	67.0-129			2.90	20
1,2,3-Trimethylbenzene	0.125	0.115	0.113	92.1	90.8	74.0-124			1.46	20
1,2,4-Trimethylbenzene	0.125	0.115	0.113	91.7	90.5	70.0-126			1.30	20
1,3,5-Trimethylbenzene	0.125	0.121	0.122	96.9	97.3	73.0-127			0.364	20
Vinyl chloride	0.125	0.137	0.143	109	115	63.0-134			4.63	20
Xylenes, Total	0.375	0.348	0.357	92.8	95.2	72.0-127			2.55	20
(S) Toluene-d8				*88.6*	*88.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*96.5*	*95.2*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*114*	*114*	*70.0-130*				

Method Blank (MB)

(MB) R3391605-2 03/13/19 11:48

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	*96.0*			*75.0-131*
(S) 4-Bromofluorobenzene	*89.6*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*116*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3391605-1 03/13/19 10:52

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Tetrachloroethene	0.125	0.106	84.9	70.0-136	
(S) Toluene-d8			*93.6*	*75.0-131*	
(S) 4-Bromofluorobenzene			*87.0*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*117*	*70.0-130*	

Method Blank (MB)

(MB) R3391643-2 03/14/19 10:25

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
cis-1,2-Dichloroethene	U		0.000690	0.00250
Tetrachloroethene	U		0.000700	0.00250
(S) Toluene-d8	*101*			*75.0-131*
(S) 4-Bromofluorobenzene	*86.5*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*106*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3391643-1 03/14/19 09:29

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
cis-1,2-Dichloroethene	0.125	0.110	87.7	73.0-125	
Tetrachloroethene	0.125	0.0976	78.1	70.0-136	
(S) Toluene-d8			*93.8*	*75.0-131*	
(S) 4-Bromofluorobenzene			*91.6*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*115*	*70.0-130*	

Method Blank (MB)

(MB) R3390266-1 03/10/19 13:34

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
TPH (GC/FID) High Fraction	U		0.769	4.00
(S) o-Terphenyl	*83.3*			*18.0-148*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390266-2 03/10/19 13:46 • (LCSD) R3390266-3 03/10/19 13:59

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	50.0	46.2	45.7	92.4	91.4	50.0-150			1.09	20
(S) o-Terphenyl				*108*	*105*	*18.0-148*				

Method Blank (MB)

(MB) R3390693-1 03/11/19 16:28

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
PCB 1016	U		0.00350	0.0170
PCB 1221	U		0.00537	0.0170
PCB 1232	U		0.00417	0.0170
PCB 1242	U		0.00318	0.0170
PCB 1248	U		0.00315	0.0170
PCB 1254	U		0.00472	0.0170
PCB 1260	U		0.00494	0.0170
(S) Decachlorobiphenyl	*106*		*10.0-135*	
(S) Tetrachloro-m-xylene	*88.4*		*10.0-139*	

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390693-2 03/11/19 16:40 • (LCSD) R3390693-3 03/11/19 16:53

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.167	0.152	0.126	91.0	75.4	37.0-145			18.7	37
PCB 1016	0.167	0.140	0.110	83.8	65.9	36.0-141			24.0	35
(S) Decachlorobiphenyl				*112*	*99.8*	*10.0-135*				
(S) Tetrachloro-m-xylene				*92.5*	*80.5*	*10.0-139*				

L1076207-27 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1076207-27 03/11/19 18:20 • (MS) R3390693-4 03/11/19 18:32 • (MSD) R3390693-5 03/11/19 18:45

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
PCB 1260	0.218	U	0.137	0.141	62.9	64.7	1	10.0-160			2.82	38
PCB 1016	0.218	U	0.152	0.154	69.5	70.7	1	10.0-160			1.71	37
(S) Decachlorobiphenyl					*73.0*	*77.8*		*10.0-135*				
(S) Tetrachloro-m-xylene					*78.2*	*79.6*		*10.0-139*				

Method Blank (MB)

(MB) R3390652-3 03/11/19 20:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acenaphthene	U		0.00642	0.0333
Acenaphthylene	U		0.00671	0.0333
Anthracene	U		0.00632	0.0333
Benzidine	U		0.0637	0.333
Benzo(a)anthracene	U		0.00428	0.0333
Benzo(b)fluoranthene	U		0.00695	0.0333
Benzo(k)fluoranthene	U		0.00582	0.0333
Benzo(g,h,i)perylene	U		0.00721	0.0333
Benzo(a)pyrene	U		0.00548	0.0333
Bis(2-chlorethoxy)methane	U		0.00770	0.333
Bis(2-chloroethyl)ether	U		0.00896	0.333
Bis(2-chloroisopropyl)ether	U		0.00760	0.333
4-Bromophenyl-phenylether	U		0.0114	0.333
2-Chloronaphthalene	U		0.00639	0.0333
4-Chlorophenyl-phenylether	U		0.00627	0.333
Chrysene	U		0.00555	0.0333
Dibenz(a,h)anthracene	U		0.00821	0.0333
3,3-Dichlorobenzidine	U		0.0794	0.333
2,4-Dinitrotoluene	U		0.00607	0.333
2,6-Dinitrotoluene	U		0.00737	0.333
Fluoranthene	U		0.00496	0.0333
Fluorene	U		0.00682	0.0333
Hexachlorobenzene	U		0.00856	0.333
Hexachloro-1,3-butadiene	U		0.0100	0.333
Hexachlorocyclopentadiene	U		0.0587	0.333
Hexachloroethane	U		0.0134	0.333
Indeno(1,2,3-cd)pyrene	U		0.00772	0.0333
Isophorone	U		0.00522	0.333
Naphthalene	U		0.00889	0.0333
Nitrobenzene	U		0.00695	0.333
n-Nitrosodimethylamine	U		0.0647	0.333
n-Nitrosodiphenylamine	U		0.0900	0.333
n-Nitrosodi-n-propylamine	U		0.00906	0.333
Phenanthrene	U		0.00528	0.0333
Benzylbutyl phthalate	U		0.0103	0.333
Bis(2-ethylhexyl)phthalate	U		0.0120	0.333
Di-n-butyl phthalate	U		0.0109	0.333
Diethyl phthalate	U		0.00691	0.333
Dimethyl phthalate	U		0.00540	0.333
Di-n-octyl phthalate	U		0.00907	0.333

Method Blank (MB)

(MB) R3390652-3 03/11/19 20:20

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Pyrene	U		0.0123	0.0333
1,2,4-Trichlorobenzene	U		0.00876	0.333
4-Chloro-3-methylphenol	U		0.00477	0.333
2-Chlorophenol	U		0.00831	0.333
2,4-Dichlorophenol	U		0.00746	0.333
2,4-Dimethylphenol	U		0.0471	0.333
4,6-Dinitro-2-methylphenol	U		0.124	0.333
2,4-Dinitrophenol	U		0.0980	0.333
2-Nitrophenol	U		0.0130	0.333
4-Nitrophenol	U		0.0525	0.333
Pentachlorophenol	U		0.0480	0.333
Phenol	U		0.00695	0.333
2,4,6-Trichlorophenol	U		0.00779	0.333
(S) Nitrobenzene-d5	*65.8*			*10.0-122*
(S) 2-Fluorobiphenyl	*61.3*			*15.0-120*
(S) p-Terphenyl-d14	*69.7*			*10.0-120*
(S) Phenol-d5	*68.3*			*10.0-120*
(S) 2-Fluorophenol	*78.2*			*12.0-120*
(S) 2,4,6-Tribromophenol	*65.6*			*10.0-127*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390652-1 03/11/19 19:43 • (LCSD) R3390652-2 03/11/19 20:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.666	0.416	0.418	62.5	62.8	38.0-120			0.480	22
Acenaphthylene	0.666	0.436	0.441	65.5	66.2	40.0-120			1.14	22
Anthracene	0.666	0.405	0.423	60.8	63.5	42.0-120			4.35	20
Benzidine	1.33	0.142	0.183	10.7	13.8	1.00-120			25.2	40
Benzo(a)anthracene	0.666	0.435	0.469	65.3	70.4	44.0-120			7.52	20
Benzo(b)fluoranthene	0.666	0.432	0.443	64.9	66.5	43.0-120			2.51	22
Benzo(k)fluoranthene	0.666	0.430	0.441	64.6	66.2	44.0-120			2.53	21
Benzo(g,h,i)perylene	0.666	0.400	0.428	60.1	64.3	43.0-120			6.76	22
Benzo(a)pyrene	0.666	0.415	0.434	62.3	65.2	45.0-120			4.48	20
Bis(2-chlorethoxy)methane	0.666	0.355	0.341	53.3	51.2	20.0-120			4.02	23
Bis(2-chloroethyl)ether	0.666	0.398	0.419	59.8	62.9	16.0-120			5.14	31
Bis(2-chloroisopropyl)ether	0.666	0.352	0.383	52.9	57.5	23.0-120			8.44	30
4-Bromophenyl-phenylether	0.666	0.402	0.432	60.4	64.9	40.0-120			7.19	21
2-Chloronaphthalene	0.666	0.410	0.422	61.6	63.4	35.0-120			2.88	24

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390652-1 03/11/19 19:43 • (LCSD) R3390652-2 03/11/19 20:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
4-Chlorophenyl-phenylether	0.666	0.433	0.450	65.0	67.6	40.0-120			3.85	22
Chrysene	0.666	0.409	0.443	61.4	66.5	43.0-120			7.98	20
Dibenz(a,h)anthracene	0.666	0.407	0.433	61.1	65.0	44.0-120			6.19	22
3,3-Dichlorobenzidine	1.33	0.755	0.838	56.8	63.0	28.0-120			10.4	23
2,4-Dinitrotoluene	0.666	0.466	0.487	70.0	73.1	45.0-120			4.41	21
2,6-Dinitrotoluene	0.666	0.444	0.463	66.7	69.5	42.0-120			4.19	21
Fluoranthene	0.666	0.400	0.425	60.1	63.8	44.0-120			6.06	21
Fluorene	0.666	0.419	0.433	62.9	65.0	41.0-120			3.29	22
Hexachlorobenzene	0.666	0.404	0.436	60.7	65.5	39.0-120			7.62	21
Hexachloro-1,3-butadiene	0.666	0.331	0.337	49.7	50.6	15.0-120			1.80	28
Hexachlorocyclopentadiene	0.666	0.418	0.431	62.8	64.7	15.0-120			3.06	31
Hexachloroethane	0.666	0.367	0.368	55.1	55.3	17.0-120			0.272	31
Indeno(1,2,3-cd)pyrene	0.666	0.409	0.421	61.4	63.2	45.0-120			2.89	21
Isophorone	0.666	0.350	0.343	52.6	51.5	23.0-120			2.02	23
Naphthalene	0.666	0.345	0.347	51.8	52.1	18.0-120			0.578	24
Nitrobenzene	0.666	0.353	0.349	53.0	52.4	17.0-120			1.14	26
n-Nitrosodimethylamine	0.666	0.413	0.425	62.0	63.8	10.0-125			2.86	33
n-Nitrosodiphenylamine	0.666	0.391	0.419	58.7	62.9	40.0-120			6.91	21
n-Nitrosodi-n-propylamine	0.666	0.393	0.407	59.0	61.1	26.0-120			3.50	27
Phenanthrene	0.666	0.405	0.421	60.8	63.2	42.0-120			3.87	20
Benzylbutyl phthalate	0.666	0.439	0.474	65.9	71.2	40.0-120			7.67	21
Bis(2-ethylhexyl)phthalate	0.666	0.446	0.474	67.0	71.2	41.0-120			6.09	21
Di-n-butyl phthalate	0.666	0.426	0.447	64.0	67.1	43.0-120			4.81	20
Diethyl phthalate	0.666	0.425	0.441	63.8	66.2	43.0-120			3.70	21
Dimethyl phthalate	0.666	0.430	0.440	64.6	66.1	43.0-120			2.30	22
Di-n-octyl phthalate	0.666	0.428	0.461	64.3	69.2	40.0-120			7.42	21
Pyrene	0.666	0.425	0.449	63.8	67.4	41.0-120			5.49	21
1,2,4-Trichlorobenzene	0.666	0.341	0.337	51.2	50.6	17.0-120			1.18	26
4-Chloro-3-methylphenol	0.666	0.396	0.386	59.5	58.0	28.0-120			2.56	20
2-Chlorophenol	0.666	0.447	0.467	67.1	70.1	28.0-120			4.38	28
2,4-Dichlorophenol	0.666	0.403	0.398	60.5	59.8	25.0-120			1.25	21
2,4-Dimethylphenol	0.666	0.382	0.387	57.4	58.1	15.0-120			1.30	26
4,6-Dinitro-2-methylphenol	0.666	0.439	0.463	65.9	69.5	16.0-120			5.32	33
2,4-Dinitrophenol	0.666	0.314	0.330	47.1	49.5	10.0-120			4.97	40
2-Nitrophenol	0.666	0.393	0.407	59.0	61.1	20.0-120			3.50	25
4-Nitrophenol	0.666	0.511	0.517	76.7	77.6	27.0-120			1.17	24
Pentachlorophenol	0.666	0.501	0.531	75.2	79.7	29.0-120			5.81	25
Phenol	0.666	0.450	0.455	67.6	68.3	28.0-120			1.10	27
2,4,6-Trichlorophenol	0.666	0.498	0.514	74.8	77.2	37.0-120			3.16	24
(S) Nitrobenzene-d5				*60.1*	*57.1*	*10.0-122*				

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3390652-1 03/11/19 19:43 • (LCSD) R3390652-2 03/11/19 20:02

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
(S) 2-Fluorobiphenyl				*65.5*	*65.2*	*15.0-120*				
(S) p-Terphenyl-d14				*68.8*	*70.9*	*10.0-120*				
(S) Phenol-d5				*70.0*	*69.4*	*10.0-120*				
(S) 2-Fluorophenol				*79.7*	*78.8*	*12.0-120*				
(S) 2,4,6-Tribromophenol				*74.2*	*76.9*	*10.0-127*				

L1076527-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1076527-16 03/11/19 20:40 • (MS) R3390652-4 03/11/19 20:59 • (MSD) R3390652-5 03/11/19 21:19

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acenaphthene	0.862	U	0.461	0.474	53.4	55.5	1	18.0-120			2.89	32
Acenaphthylene	0.862	U	0.493	0.482	57.2	56.5	1	25.0-120			2.22	32
Anthracene	0.862	U	0.461	0.472	53.4	55.2	1	22.0-120			2.32	29
Benzidine	1.73	U	ND	ND	0.000	0.000	1	1.00-120	J6	J6	0.000	40
Benzo(a)anthracene	0.862	U	0.505	0.486	58.6	57.0	1	25.0-120			3.81	29
Benzo(b)fluoranthene	0.862	U	0.474	0.470	55.0	55.1	1	19.0-122			0.858	31
Benzo(k)fluoranthene	0.862	U	0.476	0.462	55.2	54.1	1	23.0-120			2.88	30
Benzo(g,h,i)perylene	0.862	U	0.466	0.449	54.1	52.5	1	10.0-120			3.84	33
Benzo(a)pyrene	0.862	U	0.481	0.462	55.8	54.1	1	24.0-120			4.01	30
Bis(2-chlorethoxy)methane	0.862	U	0.392	0.386	45.5	45.3	1	10.0-120			1.39	34
Bis(2-chloroethyl)ether	0.862	U	1.01	0.915	117	107	1	10.0-120			9.43	40
Bis(2-chloroisopropyl)ether	0.862	U	0.416	0.431	48.3	50.5	1	10.0-120			3.51	40
4-Bromophenyl-phenylether	0.862	U	0.486	0.472	56.4	55.2	1	27.0-120			3.10	30
2-Chloronaphthalene	0.862	U	0.474	0.482	55.0	56.5	1	20.0-120			1.69	32
4-Chlorophenyl-phenylether	0.862	U	0.484	0.480	56.1	56.2	1	24.0-120			0.842	29
Chrysene	0.862	U	0.466	0.449	54.1	52.5	1	21.0-120			3.84	29
Dibenz(a,h)anthracene	0.862	U	0.469	0.455	54.4	53.3	1	10.0-120			2.92	32
3,3-Dichlorobenzidine	1.73	U	0.163	0.138	9.45	8.10	1	10.0-120	J6	J6	17.0	34
2,4-Dinitrotoluene	0.862	U	0.551	0.562	63.9	65.8	1	30.0-120			1.94	31
2,6-Dinitrotoluene	0.862	U	0.503	0.522	58.3	61.1	1	25.0-120			3.69	31
Fluoranthene	0.862	U	0.493	0.496	57.2	58.1	1	18.0-126			0.546	32
Fluorene	0.862	U	0.478	0.474	55.5	55.5	1	25.0-120			0.851	30
Hexachlorobenzene	0.862	U	0.470	0.469	54.5	54.9	1	27.0-120			0.288	28
Hexachloro-1,3-butadiene	0.862	U	0.373	0.384	43.3	44.9	1	10.0-120			2.86	38
Hexachlorocyclopentadiene	0.862	U	0.461	0.451	53.4	52.8	1	10.0-120			2.07	40
Hexachloroethane	0.862	U	0.420	0.465	48.7	54.4	1	10.0-120			10.1	40
Indeno(1,2,3-cd)pyrene	0.862	U	0.482	0.473	56.0	55.4	1	10.0-120			1.98	32
Isophorone	0.862	U	0.396	0.389	45.9	45.6	1	13.0-120			1.72	34

L1076527-16 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1076527-16 03/11/19 20:40 • (MS) R3390652-4 03/11/19 20:59 • (MSD) R3390652-5 03/11/19 21:19

Analyte	Spike Amount (dry) mg/kg	Original Result (dry) mg/kg	MS Result (dry) mg/kg	MSD Result (dry) mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Naphthalene	0.862	U	0.388	0.389	45.0	45.6	1	10.0-120			0.348	35
Nitrobenzene	0.862	U	0.389	0.389	45.1	45.6	1	10.0-120			0.000	36
n-Nitrosodimethylamine	0.862	U	0.435	0.450	50.5	52.7	1	10.0-127			3.36	40
n-Nitrosodiphenylamine	0.862	U	0.455	0.435	52.8	50.9	1	17.0-120			4.55	29
n-Nitrosodi-n-propylamine	0.862	U	0.463	0.489	53.8	57.3	1	10.0-120			5.39	37
Phenanthrene	0.862	U	0.478	0.478	55.5	56.0	1	17.0-120			0.000	31
Benzylbutyl phthalate	0.862	U	0.544	0.513	63.2	60.1	1	23.0-120			5.87	30
Bis(2-ethylhexyl)phthalate	0.862	U	0.547	0.501	63.5	58.7	1	17.0-126			8.76	30
Di-n-butyl phthalate	0.862	U	0.508	0.484	58.9	56.6	1	30.0-120			4.90	29
Diethyl phthalate	0.862	U	0.486	0.478	56.4	56.0	1	26.0-120			1.68	28
Dimethyl phthalate	0.862	U	0.486	0.493	56.4	57.8	1	25.0-120			1.38	29
Di-n-octyl phthalate	0.862	U	0.557	0.512	64.6	60.0	1	21.0-123			8.34	29
Pyrene	0.862	U	0.504	0.505	58.5	59.2	1	16.0-121			0.268	32
1,2,4-Trichlorobenzene	0.862	U	0.376	0.390	43.6	45.7	1	12.0-120			3.88	37
4-Chloro-3-methylphenol	0.862	U	0.477	0.461	55.3	54.0	1	15.0-120			3.46	30
2-Chlorophenol	0.862	U	0.538	0.555	62.4	65.0	1	15.0-120			3.21	37
2,4-Dichlorophenol	0.862	U	0.472	0.470	54.7	55.1	1	20.0-120			0.287	31
2,4-Dimethylphenol	0.862	U	0.436	0.388	50.6	45.4	1	10.0-120			11.8	33
4,6-Dinitro-2-methylphenol	0.862	U	0.658	0.708	76.3	82.9	1	10.0-120			7.32	39
2,4-Dinitrophenol	0.862	U	0.682	0.773	79.2	90.5	1	10.0-121			12.4	40
2-Nitrophenol	0.862	U	0.480	0.480	55.6	56.2	1	12.0-120			0.000	39
4-Nitrophenol	0.862	U	0.694	0.651	80.6	76.3	1	10.0-137			6.43	32
Pentachlorophenol	0.862	U	0.789	0.766	91.5	89.7	1	10.0-160			2.95	31
Phenol	0.862	U	0.517	0.527	60.0	61.7	1	12.0-120			1.81	38
2,4,6-Trichlorophenol	0.862	U	0.590	0.605	68.5	70.9	1	19.0-120			2.49	32
(S) Nitrobenzene-d5					*51.1*	*50.9*		*10.0-122*				
(S) 2-Fluorobiphenyl					*53.9*	*54.7*		*15.0-120*				
(S) p-Terphenyl-d14					*58.6*	*60.4*		*10.0-120*				
(S) Phenol-d5					*60.3*	*63.4*		*10.0-120*				
(S) 2-Fluorophenol					*68.2*	*71.7*		*12.0-120*				
(S) 2,4,6-Tribromophenol					*70.4*	*73.6*		*10.0-127*				

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

(dry)	Results are reported based on the dry weight of the sample. [this will only be present on a dry report basis for soils].
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state “ND” (Not Detected) or “BDL” (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
J7	Surrogate recovery cannot be used for control limit evaluation due to dilution.
P	RPD between the primary and confirmatory analysis exceeded 40%.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

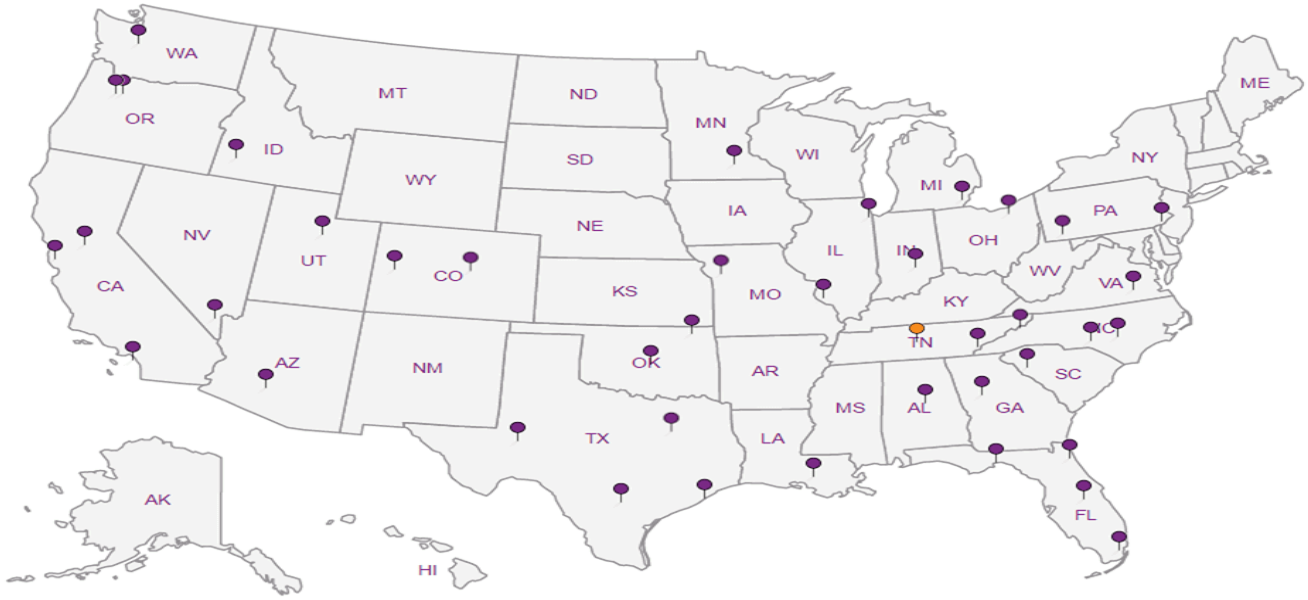
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1076531

B093

Acctnum: CLECONLVA
Template: T146991
Prelogin: P696523
TSR: 633 - Pam Langford
PB: TB 3-4-19
Shipped Via: FedEX Ground

Clendenin Consulting Group - VA

116 C2 Edwards Ferry Road
Leesburg, VA 20176

Billing Information:
Accounts Payable
P.O. Drawer
Leesburg, VA 20178-7406

Pres Chk

Email To: Sam@clendeninconsulting.com

Report to: Samantha Kirk

Project Description: Amato Property

City/State Collected:

Phone: 703-771-8816
Fax: 703-771-8825

Client Project # 18006

Lab Project # CLECONLVA-18006

Collected by (print): Winthrop McConnach

Site/Facility ID #

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DRO, 8082, OGHEX, 8270 4ozClr-NoPres	RCRA METALS 2ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb/MeOH5ml/Syr	Remarks	Sample # (lab only)
G-1	G	SS	2'	3/6/19	9:45	2			X	X		-01
G-2	G	SS	2.5'-5'	3/6/19	9:55	2			X	X		-02
G-5	G	SS	0-1.5'	3/6/19	10:15	2			X	X		-03
G-6	G	SS	5'	3/6/19	10:40	2			X	X		-04
G-7	G	SS	5'	3/6/19	11:00	2			X	X		-05
G-8	G	SS	2.5'-5'	3/6/19	11:15	2			X	X		-06
G-9	G	SS	0-2'	3/6/19	11:25	2			X	X		-07
G-10	G	SS	5'	3/6/19	11:45	2			X	X		-08
G-11	G	SS	2.5'-5'	3/6/19	11:55	2			X	X		-09
G-12	G	SS	2.5'-5'	3/6/19	12:10	2			X	X		-10

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 4876 1077 0500

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
	3/6/19	500 PM			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.7+1=1.8 °C Bottles Received: 13	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) Kwillis	Date: 3/7/19 Time: 900	Hold: Condition: NCF / OK

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L1076531

Table #

Acctnum: CLECONLVA

Template: T146991

Prelogin: P696523

TSR: 633 - Pam Langford

PB: TB 3-4-19

Shipped Via: FedEx Ground

Clendenin Consulting Group - VA

116 C2 Edwards Ferry Road
Leesburg, VA 20176

Billing Information:
Accounts Payable
P.O. Drawer
Leesburg, VA 20178-7406

Pres Chk

Email To: Sam@clendeninconsulting.com

Report to: Samantha Kirk

Project Description: Amato Property

City/State Collected:

Phone: 703-771-8816
Fax: 703-771-8825

Client Project # 18006

Lab Project # CLECONLVA-18006

Collected by (print): Winthrop McCormack

Site/Facility ID #

P.O. #

Collected by (signature):

Quote #

Immediately Packed on Ice N ___ Y ✓

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	DRO, 8082, OGHEX, 8270 4ozClr-NoPres	RCRA METALS 2ozClr-NoPres	TS 4ozClr-NoPres	V8260 40mlAmb/MeOH5ml/Syr	Remarks	Sample # (lab only)
		SS				2			X	X		
		SS				2			X	X		
		SS				3	X	X		X		
CG-13	C	SS	—	3/6/19	1:00							

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking #

Sample Receipt Checklist
COC Seal Present/Intact: __NP ✓Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N
RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
[signature]	3/6/19	5:00PM			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 1.7+.1=1.8 °C AM Bottles Received: 13	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) [signature]	Date: 3/7/19 Time: 900	Hold: Condition: NCF / OK

Login #: L1076531	Client: CLECONLVA	Date: 3/7/19	Evaluated by: Troy Dunlap

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Temperature not in range		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	pH not in range.		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.	X	Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Received G-1 at 0955 which is time for G-2. Logged per COC.
Received G-2 at 0945 which is ime for G-1. Logged per COC.

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact:								

Login Instructions:

Please proceed per chain of custody per Samantha Kirk.

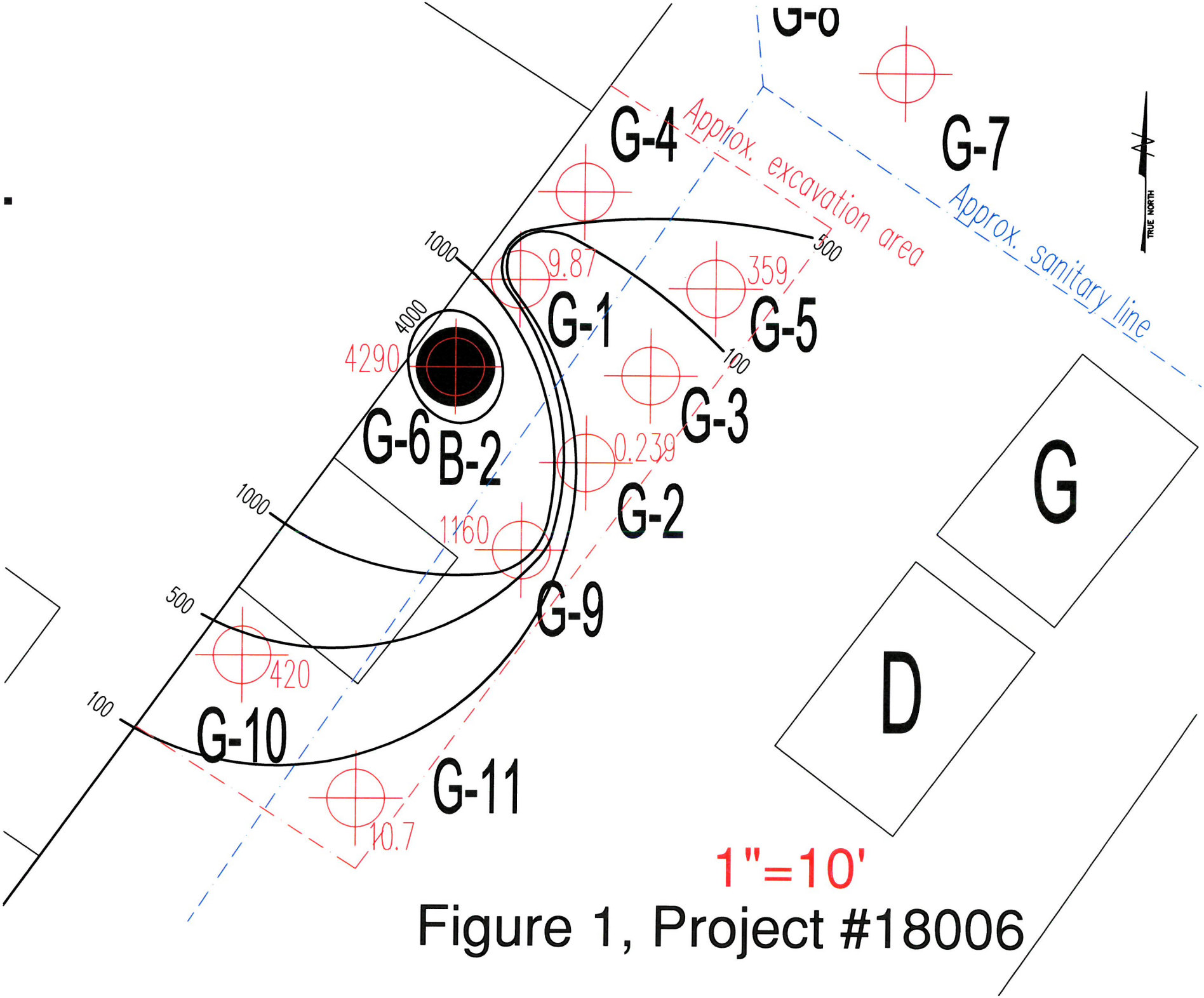


Figure 1, Project #18006

Amato Property/9120 Talbot Ave
18006 - 3/22/2019
Laboratory Results - Geoprobe Soil Exploration near B-2

	G-1	G-2	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	CG-13
Sample Depths	2'	2.5-5'	0-1.5'	5'	5'	2.5-5'	0-2'	5'	2.5-5'	2.5-5'	n/a
PID	398	412	788	5000+	175	1009	5000+	5000+	289	209	n/a
Benzene	ND	0.00317	ND	ND	0.017	0.0289	ND	ND	0.00229	0.038	0.00213
n-Butylbenzene	0.115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.104	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.0132	ND	ND
cis-1,2-Dichloroethene	0.506	13.3	0.32	1.83	ND	0.0609	ND	ND	0.664	ND	0.0421
trans-1,2-Dichloroethene	ND	0.254	ND	ND	ND	0.00763	ND	ND	0.0879	ND	ND
Ethylbenzene	0.0215	0.00648	ND	ND	0.00359	0.0175	ND	ND	ND	0.015	ND
Isopropylbenzene	ND	0.00269	ND	ND	ND	ND	ND	ND	ND	0.00647	ND
p-Isopropyltoluene	0.138	ND	ND	2.14	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	0.0278	ND	ND	ND	ND	ND	ND	ND	0.0285	ND
Naphthalene	0.34	ND	ND	7.58	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.0724	ND	ND	1.19	ND	ND	ND	ND	ND	0.022	ND
Tetrachloroethene	9.87	0.239	359	4270	0.058	0.424	1160	420	10.7	0.0568	0.444
Toluene	ND	0.0101	ND	ND	ND	0.00533	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	ND	ND	ND	4.31	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.0894	0.0256	7.37	52.2	0.00204	0.25	0.468	1.27	0.945	ND	0.0357
1,2,4-Trimethylbenzene	0.601	0.0198	ND	11.2	ND	0.0125	ND	1.89	ND	0.0139	0.00951
1,2,3-Trimethylbenzene	0.342	0.0159	ND	7.56	ND	0.00748	ND	1.46	ND	0.00676	0.0111
1,3,5-Trimethylbenzene	0.307	0.00837	ND	4.15	ND	ND	ND	0.713	ND	0.00792	0.0053
Vinyl Chloride	ND	0.27	ND	ND	ND	ND	ND	ND	0.044	ND	ND
Xylenes, Total	0.0581	0.0257	ND	2.88	0.027	0.0406	ND	ND	0.00684	0.094	ND

*mg/kg
**ND - Non-Detect
***Only analytes that have one or more detections are shown
****CG-13 is a composite sample analyzed for Clean Earth
*****Results recorded in red are above EPA's Regional Screening Levels for Composite Worker

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3/28/2019
Ms. Samantha Kirk
Clendenin Consulting & Remediation Group
116-C2 Edwards Ferry Road

Leesburg VA 20176

Project Name: Amato Industries/9120 Talbot Ave
Project #: 18006
Workorder #: 1903364

Dear Ms. Samantha Kirk

The following report includes the data for the above referenced project for sample(s) received on 3/15/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Rachel Selenis at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Rachel Selenis
Project Manager

eurofins | Air Toxics

WORK ORDER #: 1903364

Work Order Summary

CLIENT:	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176	**BILL TO:**	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176
PHONE:	703-771-8816	**P.O. #**	
FAX:	703-771-8825	**PROJECT #**	18006 Amato Industries/9120 Talbot Ave
DATE RECEIVED:	03/15/2019	**CONTACT:**	Rachel Selenis
DATE COMPLETED:	03/28/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	B-5	Modified TO-15	2.8 "Hg	16.2 psi
02A	Lab Blank	Modified TO-15	NA	NA
03A	CCV	Modified TO-15	NA	NA
04A	LCS	Modified TO-15	NA	NA
04AA	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 03/28/19

Certification numbers: AZ Licensure AZ0775, FL NELAP - E8 , LA NELAP - 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP CA009332018-10, VA NELAP - 9505, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics LLC. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics LLC.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

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LABORATORY NARRATIVE
EPA Method TO-15 Soil Gas
Clendenin Consulting & Remediation Group
Workorder# 1903364

One 1 Liter Summa Canister (100% Certified) sample was received on March 15, 2019. The laboratory performed analysis via EPA Method TO-15 using GC/MS in the full scan mode. The method involves concentrating up to 50 mLs of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page.

Sample B-5 was transferred from Low Level analysis to full scan TO-15 due to high levels of target compounds.

Dilution was performed on sample B-5 due to the presence of high level target species.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit, LOD, or MDL value. See data page for project specific U-flag definition.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
EPA METHOD TO-15 GC/MS

Client Sample ID: B-5

Lab ID#: 1903364-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	45	6100	110	16000
1,1-Dichloroethene	45	300	180	1200
Carbon Disulfide	180	250	560	780
trans-1,2-Dichloroethene	45	120	180	500
Hexane	45	200	160	720
cis-1,2-Dichloroethene	45	8900	180	35000
Cyclohexane	45	140	150	480
2,2,4-Trimethylpentane	45	370	210	1700
Heptane	45	120	180	500
Trichloroethene	45	1800	240	9600
Toluene	45	60	170	230
Tetrachloroethene	45	27000	300	180000

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Client Sample ID: B-5

Lab ID#: 1903364-01A

EPA METHOD TO-15 GC/MS

File Name:	**14032532**	**Date of Collection:**	**3/14/19 10:50:00 AM**
Dil. Factor:	**8.92**	**Date of Analysis:**	**3/25/19 09:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	45	Not Detected	220	Not Detected
Freon 114	45	Not Detected	310	Not Detected
Chloromethane	180	Not Detected	370	Not Detected
Vinyl Chloride	45	6100	110	16000
1,3-Butadiene	45	Not Detected	99	Not Detected
Bromomethane	180	Not Detected	690	Not Detected
Chloroethane	180	Not Detected	470	Not Detected
Freon 11	45	Not Detected	250	Not Detected
Ethanol	180	Not Detected	340	Not Detected
Freon 113	45	Not Detected	340	Not Detected
1,1-Dichloroethene	45	300	180	1200
Acetone	180	Not Detected	420	Not Detected
2-Propanol	180	Not Detected	440	Not Detected
Carbon Disulfide	180	250	560	780
3-Chloropropene	180	Not Detected	560	Not Detected
Methylene Chloride	180	Not Detected	620	Not Detected
Methyl tert-butyl ether	45	Not Detected	160	Not Detected
trans-1,2-Dichloroethene	45	120	180	500
Hexane	45	200	160	720
1,1-Dichloroethane	45	Not Detected	180	Not Detected
2-Butanone (Methyl Ethyl Ketone)	180	Not Detected	530	Not Detected
cis-1,2-Dichloroethene	45	8900	180	35000
Tetrahydrofuran	45	Not Detected	130	Not Detected
Chloroform	45	Not Detected	220	Not Detected
1,1,1-Trichloroethane	45	Not Detected	240	Not Detected
Cyclohexane	45	140	150	480
Carbon Tetrachloride	45	Not Detected	280	Not Detected
2,2,4-Trimethylpentane	45	370	210	1700
Benzene	45	Not Detected	140	Not Detected
1,2-Dichloroethane	45	Not Detected	180	Not Detected
Heptane	45	120	180	500
Trichloroethene	45	1800	240	9600
1,2-Dichloropropane	45	Not Detected	210	Not Detected
1,4-Dioxane	180	Not Detected	640	Not Detected
Bromodichloromethane	45	Not Detected	300	Not Detected
cis-1,3-Dichloropropene	45	Not Detected	200	Not Detected
4-Methyl-2-pentanone	45	Not Detected	180	Not Detected
Toluene	45	60	170	230
trans-1,3-Dichloropropene	45	Not Detected	200	Not Detected
1,1,2-Trichloroethane	45	Not Detected	240	Not Detected
Tetrachloroethene	45	27000	300	180000
2-Hexanone	180	Not Detected	730	Not Detected

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Client Sample ID: B-5

Lab ID#: 1903364-01A

EPA METHOD TO-15 GC/MS

File Name:	**14032532**	**Date of Collection:**	**3/14/19 10:50:00 AM**
Dil. Factor:	**8.92**	**Date of Analysis:**	**3/25/19 09:35 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	45	Not Detected	380	Not Detected
1,2-Dibromoethane (EDB)	45	Not Detected	340	Not Detected
Chlorobenzene	45	Not Detected	200	Not Detected
Ethyl Benzene	45	Not Detected	190	Not Detected
m,p-Xylene	45	Not Detected	190	Not Detected
o-Xylene	45	Not Detected	190	Not Detected
Styrene	45	Not Detected	190	Not Detected
Bromoform	45	Not Detected	460	Not Detected
Cumene	45	Not Detected	220	Not Detected
1,1,2,2-Tetrachloroethane	45	Not Detected	310	Not Detected
Propylbenzene	45	Not Detected	220	Not Detected
4-Ethyltoluene	45	Not Detected	220	Not Detected
1,3,5-Trimethylbenzene	45	Not Detected	220	Not Detected
1,2,4-Trimethylbenzene	45	Not Detected	220	Not Detected
1,3-Dichlorobenzene	45	Not Detected	270	Not Detected
1,4-Dichlorobenzene	45	Not Detected	270	Not Detected
alpha-Chlorotoluene	45	Not Detected	230	Not Detected
1,2-Dichlorobenzene	45	Not Detected	270	Not Detected
1,2,4-Trichlorobenzene	180	Not Detected	1300	Not Detected
Hexachlorobutadiene	180	Not Detected	1900	Not Detected

Container Type: 1 Liter Summa Canister (100% Certified)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	105	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1903364-02A

EPA METHOD TO-15 GC/MS

File Name:	**14032507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/19 09:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	5.0	Not Detected	25	Not Detected
Freon 114	5.0	Not Detected	35	Not Detected
Chloromethane	20	Not Detected	41	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
1,3-Butadiene	5.0	Not Detected	11	Not Detected
Bromomethane	20	Not Detected	78	Not Detected
Chloroethane	20	Not Detected	53	Not Detected
Freon 11	5.0	Not Detected	28	Not Detected
Ethanol	20	Not Detected	38	Not Detected
Freon 113	5.0	Not Detected	38	Not Detected
1,1-Dichloroethene	5.0	Not Detected	20	Not Detected
Acetone	20	Not Detected	48	Not Detected
2-Propanol	20	Not Detected	49	Not Detected
Carbon Disulfide	20	Not Detected	62	Not Detected
3-Chloropropene	20	Not Detected	63	Not Detected
Methylene Chloride	20	Not Detected	69	Not Detected
Methyl tert-butyl ether	5.0	Not Detected	18	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Hexane	5.0	Not Detected	18	Not Detected
1,1-Dichloroethane	5.0	Not Detected	20	Not Detected
2-Butanone (Methyl Ethyl Ketone)	20	Not Detected	59	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrahydrofuran	5.0	Not Detected	15	Not Detected
Chloroform	5.0	Not Detected	24	Not Detected
1,1,1-Trichloroethane	5.0	Not Detected	27	Not Detected
Cyclohexane	5.0	Not Detected	17	Not Detected
Carbon Tetrachloride	5.0	Not Detected	31	Not Detected
2,2,4-Trimethylpentane	5.0	Not Detected	23	Not Detected
Benzene	5.0	Not Detected	16	Not Detected
1,2-Dichloroethane	5.0	Not Detected	20	Not Detected
Heptane	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
1,2-Dichloropropane	5.0	Not Detected	23	Not Detected
1,4-Dioxane	20	Not Detected	72	Not Detected
Bromodichloromethane	5.0	Not Detected	34	Not Detected
cis-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
4-Methyl-2-pentanone	5.0	Not Detected	20	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
trans-1,3-Dichloropropene	5.0	Not Detected	23	Not Detected
1,1,2-Trichloroethane	5.0	Not Detected	27	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
2-Hexanone	20	Not Detected	82	Not Detected

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Client Sample ID: Lab Blank

Lab ID#: 1903364-02A

EPA METHOD TO-15 GC/MS

File Name:	**14032507**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/19 09:52 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Dibromochloromethane	5.0	Not Detected	42	Not Detected
1,2-Dibromoethane (EDB)	5.0	Not Detected	38	Not Detected
Chlorobenzene	5.0	Not Detected	23	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Styrene	5.0	Not Detected	21	Not Detected
Bromoform	5.0	Not Detected	52	Not Detected
Cumene	5.0	Not Detected	24	Not Detected
1,1,2,2-Tetrachloroethane	5.0	Not Detected	34	Not Detected
Propylbenzene	5.0	Not Detected	24	Not Detected
4-Ethyltoluene	5.0	Not Detected	24	Not Detected
1,3,5-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,2,4-Trimethylbenzene	5.0	Not Detected	24	Not Detected
1,3-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,4-Dichlorobenzene	5.0	Not Detected	30	Not Detected
alpha-Chlorotoluene	5.0	Not Detected	26	Not Detected
1,2-Dichlorobenzene	5.0	Not Detected	30	Not Detected
1,2,4-Trichlorobenzene	20	Not Detected	150	Not Detected
Hexachlorobutadiene	20	Not Detected	210	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1903364-03A

EPA METHOD TO-15 GC/MS

File Name:	**14032503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/19 07:37 AM**

Compound	%Recovery
Freon 12	100
Freon 114	105
Chloromethane	100
Vinyl Chloride	114
1,3-Butadiene	116
Bromomethane	125
Chloroethane	113
Freon 11	106
Ethanol	118
Freon 113	106
1,1-Dichloroethene	114
Acetone	115
2-Propanol	116
Carbon Disulfide	109
3-Chloropropene	113
Methylene Chloride	111
Methyl tert-butyl ether	118
trans-1,2-Dichloroethene	105
Hexane	113
1,1-Dichloroethane	112
2-Butanone (Methyl Ethyl Ketone)	110
cis-1,2-Dichloroethene	114
Tetrahydrofuran	106
Chloroform	108
1,1,1-Trichloroethane	106
Cyclohexane	110
Carbon Tetrachloride	100
2,2,4-Trimethylpentane	112
Benzene	104
1,2-Dichloroethane	97
Heptane	106
Trichloroethene	102
1,2-Dichloropropane	104
1,4-Dioxane	100
Bromodichloromethane	98
cis-1,3-Dichloropropene	106
4-Methyl-2-pentanone	103
Toluene	102
trans-1,3-Dichloropropene	115
1,1,2-Trichloroethane	106
Tetrachloroethene	102
2-Hexanone	116

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Client Sample ID: CCV

Lab ID#: 1903364-03A

EPA METHOD TO-15 GC/MS

File Name:	**14032503**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/19 07:37 AM**

Compound	%Recovery
Dibromochloromethane	103
1,2-Dibromoethane (EDB)	102
Chlorobenzene	97
Ethyl Benzene	102
m,p-Xylene	106
o-Xylene	104
Styrene	111
Bromoform	102
Cumene	112
1,1,2,2-Tetrachloroethane	100
Propylbenzene	110
4-Ethyltoluene	110
1,3,5-Trimethylbenzene	111
1,2,4-Trimethylbenzene	103
1,3-Dichlorobenzene	99
1,4-Dichlorobenzene	101
alpha-Chlorotoluene	113
1,2-Dichlorobenzene	99
1,2,4-Trichlorobenzene	104
Hexachlorobutadiene	114

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: LCS

Lab ID#: 1903364-04A

EPA METHOD TO-15 GC/MS

File Name:	**14032504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/19 08:20 AM**	

Compound	%Recovery	Method Limits
Freon 12	101	70-130
Freon 114	102	70-130
Chloromethane	92	70-130
Vinyl Chloride	111	70-130
1,3-Butadiene	101	70-130
Bromomethane	141 Q	70-130
Chloroethane	103	70-130
Freon 11	101	70-130
Ethanol	105	70-130
Freon 113	98	70-130
1,1-Dichloroethene	106	70-130
Acetone	112	70-130
2-Propanol	109	70-130
Carbon Disulfide	91	70-130
3-Chloropropene	97	70-130
Methylene Chloride	105	70-130
Methyl tert-butyl ether	109	70-130
trans-1,2-Dichloroethene	82	70-130
Hexane	108	70-130
1,1-Dichloroethane	106	70-130
2-Butanone (Methyl Ethyl Ketone)	99	70-130
cis-1,2-Dichloroethene	114	70-130
Tetrahydrofuran	94	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	100	70-130
Cyclohexane	105	70-130
Carbon Tetrachloride	92	70-130
2,2,4-Trimethylpentane	105	70-130
Benzene	101	70-130
1,2-Dichloroethane	96	70-130
Heptane	113	70-130
Trichloroethene	101	70-130
1,2-Dichloropropane	101	70-130
1,4-Dioxane	91	70-130
Bromodichloromethane	97	70-130
cis-1,3-Dichloropropene	98	70-130
4-Methyl-2-pentanone	94	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	107	70-130
1,1,2-Trichloroethane	103	70-130
Tetrachloroethene	99	70-130
2-Hexanone	90	70-130

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Client Sample ID: LCS
Lab ID#: 1903364-04A
EPA METHOD TO-15 GC/MS

File Name:	**14032504**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/19 08:20 AM**	

Compound	**%Recovery**	**Method Limits**
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	94	70-130
Ethyl Benzene	96	70-130
m,p-Xylene	98	70-130
o-Xylene	99	70-130
Styrene	96	70-130
Bromoform	99	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	108	70-130
4-Ethyltoluene	103	70-130
1,3,5-Trimethylbenzene	103	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	103	70-130
alpha-Chlorotoluene	104	70-130
1,2-Dichlorobenzene	98	70-130
1,2,4-Trichlorobenzene	128	70-130
Hexachlorobutadiene	118	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	99	70-130

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Client Sample ID: LCSD

Lab ID#: 1903364-04AA

EPA METHOD TO-15 GC/MS

File Name:	14032505	Date of Collection: NA	
Dil. Factor:	1.00	Date of Analysis: 3/25/19 08:50 AM	

Compound	%Recovery	Method Limits
Freon 12	102	70-130
Freon 114	101	70-130
Chloromethane	100	70-130
Vinyl Chloride	113	70-130
1,3-Butadiene	102	70-130
Bromomethane	138 Q	70-130
Chloroethane	106	70-130
Freon 11	103	70-130
Ethanol	102	70-130
Freon 113	101	70-130
1,1-Dichloroethene	103	70-130
Acetone	118	70-130
2-Propanol	112	70-130
Carbon Disulfide	89	70-130
3-Chloropropene	98	70-130
Methylene Chloride	106	70-130
Methyl tert-butyl ether	108	70-130
trans-1,2-Dichloroethene	92	70-130
Hexane	106	70-130
1,1-Dichloroethane	109	70-130
2-Butanone (Methyl Ethyl Ketone)	94	70-130
cis-1,2-Dichloroethene	117	70-130
Tetrahydrofuran	99	70-130
Chloroform	106	70-130
1,1,1-Trichloroethane	101	70-130
Cyclohexane	107	70-130
Carbon Tetrachloride	97	70-130
2,2,4-Trimethylpentane	104	70-130
Benzene	101	70-130
1,2-Dichloroethane	93	70-130
Heptane	105	70-130
Trichloroethene	99	70-130
1,2-Dichloropropane	103	70-130
1,4-Dioxane	87	70-130
Bromodichloromethane	97	70-130
cis-1,3-Dichloropropene	97	70-130
4-Methyl-2-pentanone	97	70-130
Toluene	98	70-130
trans-1,3-Dichloropropene	104	70-130
1,1,2-Trichloroethane	97	70-130
Tetrachloroethene	99	70-130
2-Hexanone	90	70-130

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Client Sample ID: LCSD

Lab ID#: 1903364-04AA

EPA METHOD TO-15 GC/MS

File Name:	**14032505**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 3/25/19 08:50 AM**	

Compound	%Recovery	Method Limits
Dibromochloromethane	98	70-130
1,2-Dibromoethane (EDB)	97	70-130
Chlorobenzene	93	70-130
Ethyl Benzene	95	70-130
m,p-Xylene	97	70-130
o-Xylene	99	70-130
Styrene	97	70-130
Bromoform	96	70-130
Cumene	104	70-130
1,1,2,2-Tetrachloroethane	98	70-130
Propylbenzene	107	70-130
4-Ethyltoluene	102	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3-Dichlorobenzene	99	70-130
1,4-Dichlorobenzene	102	70-130
alpha-Chlorotoluene	106	70-130
1,2-Dichlorobenzene	101	70-130
1,2,4-Trichlorobenzene	128	70-130
Hexachlorobutadiene	127	70-130

Q = Exceeds Quality Control limits.

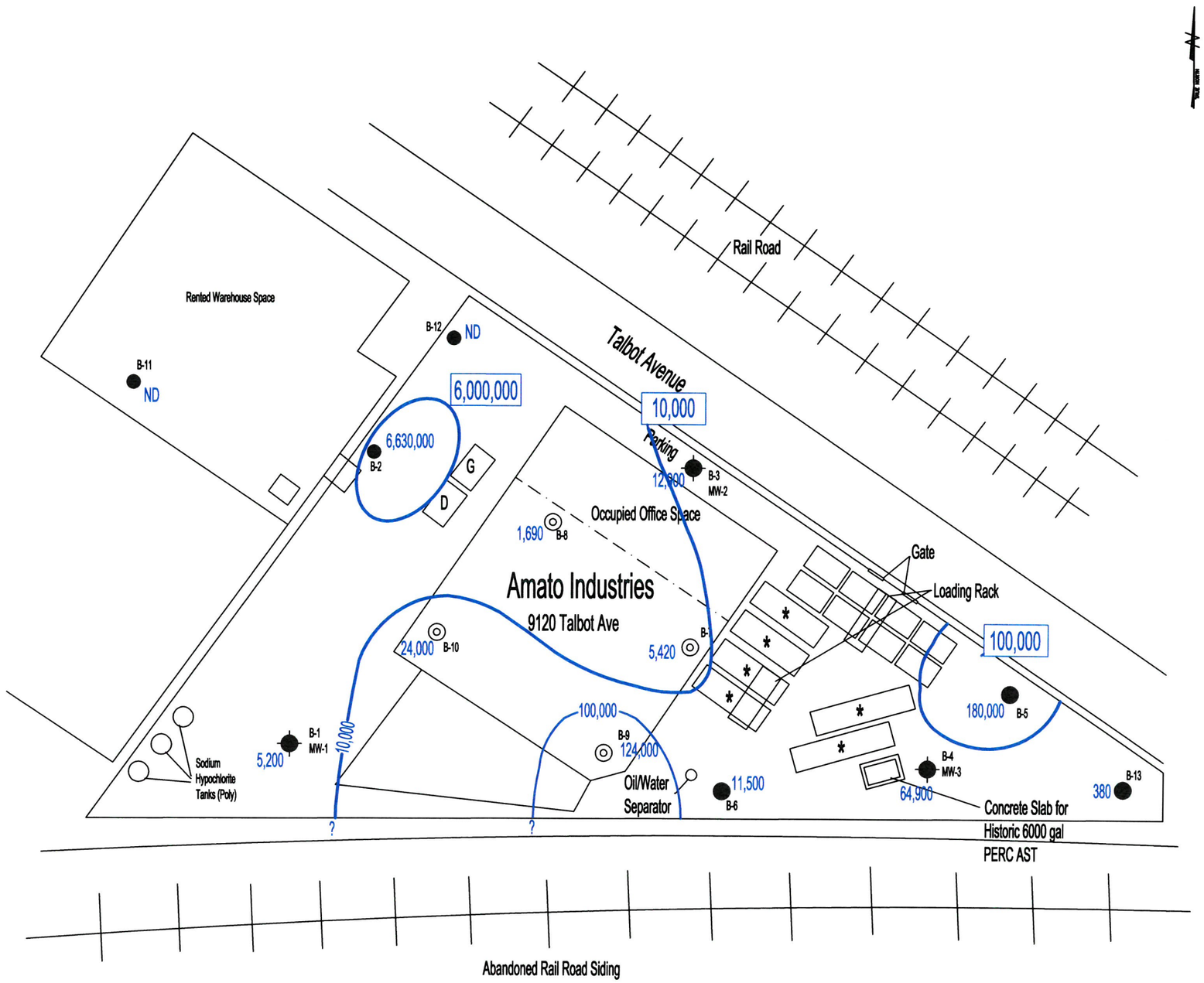
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	102	70-130

18006 - Amato Property
Soil Vapor Summary 11/27/2018
Updated with B-5 3/28/2019

Analyte	Result ug/m3	Location
Acetone	60.2	B-6
Benzene	127	B-6
Carbon Disulfide	780	B-5
Chloroethane	29.4	B-6
Chloroform	126	B-1
Chloromethane	2.03	B-3
Cyclohexane	480	B-5
1,1 Dichloroethane	263	B-6
1,1-Dichloroethene	10800	B-2
1,2-Dichloropropane	9.06	B-6
cis-1,2-Dichloroethene	498000	B-2
trans-1,2-Dichloroethene	2390	B-2
Ethanol	2460	B-2
Ethylbenzene	18.2	B-6
4-Ethyltoluene	3.32	B-6
1,1,2-Trichlorotrifluoroethane	37800	B-2
Tetrahydrofuran	4.86	B-3
Heptane	2320	B-2
n-Hexane	720	B-5
Methylene Chloride	12.8	B-6
MTBE	549	B-6
Propene	230	B-4
Tetrachloroethylene	6630000	B-2
Toluene	1630	B-2
1,1,1-Trichloroethane	133000	B-2
Trichloroethylene	661000	B-2
1,2,4-Trimethylbenzene	6.61	B-6
1,3,5-Trimethybenzene	4.03	B-6
2,2,4-Trimethylpentane	10400	B-2
Vinyl Chloride	108000	B-2
m&p-Xylene	5.29	B-6
o-Xylene	3.31	B-6

*only highest concentrations are shown



Legend

- CCRG Sub-Slab Vapor Sampling Points - November 13, 2018
- CCRG Soil Gas and Monitoring Wells - November 13, 2018
- CCRG Soil Gas Monitoring Points - November 13, 2018, January 17, 2019
- Approximate concentration contours of Tetrachloroethene in soil gas

Notes:

- Base Drawing is based on Figure 2 of Total Environment Concept's report dated March 8, 2004
- Site boundaries along Abandoned Rail Road Siding is approximate. A survey is currently underway to check site geometry
- See Summary of Findings Letter 04 dated January 2, 2019 for laboratory data sheet for soil gas analysis

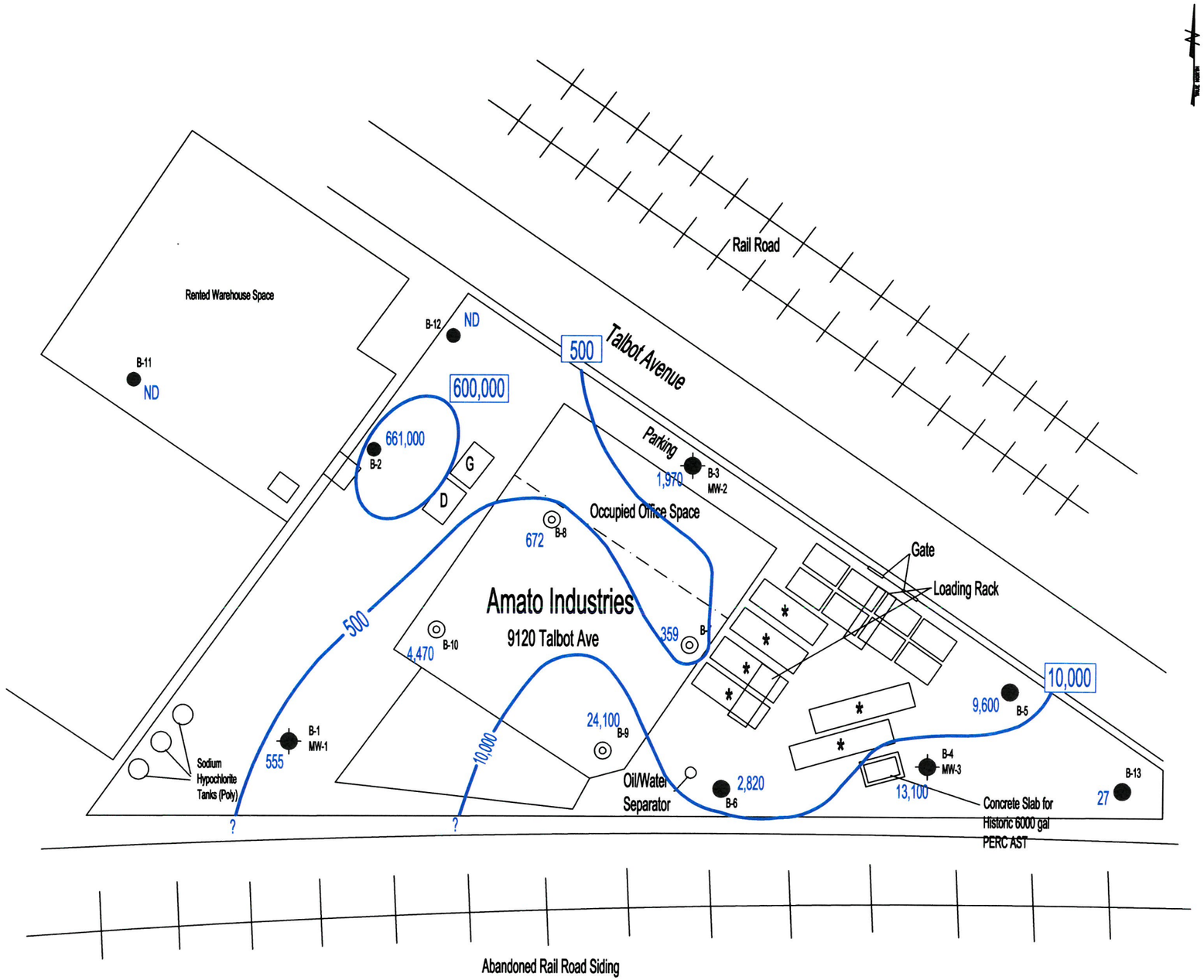
CCRG
Clendenin Consulting & Remediation Group

Amato Industries Characterization

Tetrachloroethene
Soil Gas Concentrations

Silver Spring, Maryland

Date: 4/4/2019	Scale: 1" = +or- 40' (scale approximated)
Drawn by: SJK	Approved by: BEC
Project #: 18006	Figure: 1



Legend

- CCRG Sub-Slab Vapor Sampling Points - November 13, 2018
- CCRG Soil Gas and Monitoring Wells - November 13, 2018
- CCRG Soil Gas Monitoring Points - November 13, 2018, January 17, 2019

Approximate concentration contours of Trichloroethene in soil gas

Notes:

- Base Drawing is based on Figure 2 of Total Environment Concept's report dated March 8, 2004
- Site boundary along Abandoned Rail Road Siding is approximate. A survey is currently underway to check site geometry
- See Summary of Findings Letter 04 dated January 2, 2019 for laboratory data sheet for soil gas analysis

CCRG
Clendenin Consulting & Remediation Group

Amato Industries Characterization

Trichloroethene
Soil Gas Concentrations

Silver Spring, Maryland

Date: 4/4/2019	Scale: 1" = +or- 40' (scale approximated)
Drawn by: SJK	Approved by: BEC
Project #: 18006	Figure: 2

ANALYTICAL REPORT

May 10, 2019

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Clendenin Consulting Group - VA

Sample Delivery Group:	L1095045
Samples Received:	05/03/2019
Project Number:	18006
Description:	Amato Property

Report To:

116 C2 Edwards Ferry Road
Leesburg, VA 20176

Entire Report Reviewed By: Pamela A. Langford

Pam Langford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

P-1 L1095045-01 Solid

Collected by	Collected date/time	Received date/time
Winthrop McCormack	05/02/19 08:45	05/03/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1277420	1	05/09/19 12:28	05/09/19 12:37	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1276189	1	05/03/19 18:36	05/04/19 21:42	JAH	Mt. Juliet, TN

P-2 L1095045-02 Solid

Collected by	Collected date/time	Received date/time
Winthrop McCormack	05/02/19 09:10	05/03/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1277420	1	05/09/19 12:28	05/09/19 12:37	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1276189	1	05/03/19 18:36	05/04/19 22:01	JAH	Mt. Juliet, TN

P-3 L1095045-03 Solid

Collected by	Collected date/time	Received date/time
Winthrop McCormack	05/02/19 09:30	05/03/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1277420	1	05/09/19 12:28	05/09/19 12:37	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1276189	1	05/03/19 18:36	05/04/19 22:20	JAH	Mt. Juliet, TN

P-4 L1095045-04 Solid

Collected by	Collected date/time	Received date/time
Winthrop McCormack	05/02/19 09:45	05/03/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1277422	1	05/08/19 13:40	05/08/19 13:56	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1276202	1	05/03/19 18:36	05/04/19 22:52	JHH	Mt. Juliet, TN

P-5 L1095045-05 Solid

Collected by	Collected date/time	Received date/time
Winthrop McCormack	05/02/19 10:00	05/03/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1277422	1	05/08/19 13:40	05/08/19 13:56	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1276202	1	05/03/19 18:36	05/04/19 23:13	JHH	Mt. Juliet, TN

B-14 L1095045-06 Solid

Collected by	Collected date/time	Received date/time
Winthrop McCormack	05/02/19 11:00	05/03/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Total Solids by Method 2540 G-2011	WG1277422	1	05/08/19 13:40	05/08/19 13:56	JD	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1278176	1	05/03/19 18:36	05/09/19 13:59	BMB	Mt. Juliet, TN

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Pamela A. Langford

Pam Langford
Project Manager

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	77.8		1	05/09/2019 12:37	WG1277420

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	05/04/2019 21:42	WG1276189
Acrylonitrile	ND		0.0125	1	05/04/2019 21:42	WG1276189
Benzene	ND		0.00100	1	05/04/2019 21:42	WG1276189
Bromobenzene	ND		0.0125	1	05/04/2019 21:42	WG1276189
Bromodichloromethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
Bromoform	ND		0.0250	1	05/04/2019 21:42	WG1276189
Bromomethane	ND		0.0125	1	05/04/2019 21:42	WG1276189
n-Butylbenzene	ND		0.0125	1	05/04/2019 21:42	WG1276189
sec-Butylbenzene	ND		0.0125	1	05/04/2019 21:42	WG1276189
tert-Butylbenzene	ND		0.00500	1	05/04/2019 21:42	WG1276189
Carbon tetrachloride	ND	J4	0.00500	1	05/04/2019 21:42	WG1276189
Chlorobenzene	ND	J4	0.00250	1	05/04/2019 21:42	WG1276189
Chlorodibromomethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
Chloroethane	ND		0.00500	1	05/04/2019 21:42	WG1276189
Chloroform	ND		0.00250	1	05/04/2019 21:42	WG1276189
Chloromethane	ND		0.0125	1	05/04/2019 21:42	WG1276189
2-Chlorotoluene	ND		0.00250	1	05/04/2019 21:42	WG1276189
4-Chlorotoluene	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	05/04/2019 21:42	WG1276189
1,2-Dibromoethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
Dibromomethane	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,2-Dichlorobenzene	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,3-Dichlorobenzene	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,4-Dichlorobenzene	ND		0.00500	1	05/04/2019 21:42	WG1276189
Dichlorodifluoromethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
1,1-Dichloroethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
1,2-Dichloroethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
1,1-Dichloroethene	ND		0.00250	1	05/04/2019 21:42	WG1276189
cis-1,2-Dichloroethene	0.00446		0.00250	1	05/04/2019 21:42	WG1276189
trans-1,2-Dichloroethene	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,2-Dichloropropane	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,1-Dichloropropene	ND		0.00250	1	05/04/2019 21:42	WG1276189
1,3-Dichloropropane	ND		0.00500	1	05/04/2019 21:42	WG1276189
cis-1,3-Dichloropropene	ND		0.00250	1	05/04/2019 21:42	WG1276189
trans-1,3-Dichloropropene	ND		0.00500	1	05/04/2019 21:42	WG1276189
2,2-Dichloropropane	ND		0.00250	1	05/04/2019 21:42	WG1276189
Di-isopropyl ether	ND		0.00100	1	05/04/2019 21:42	WG1276189
Ethylbenzene	ND		0.00250	1	05/04/2019 21:42	WG1276189
Hexachloro-1,3-butadiene	ND		0.0250	1	05/04/2019 21:42	WG1276189
Isopropylbenzene	ND		0.00250	1	05/04/2019 21:42	WG1276189
p-Isopropyltoluene	ND		0.00500	1	05/04/2019 21:42	WG1276189
2-Butanone (MEK)	ND		0.0250	1	05/04/2019 21:42	WG1276189
Methylene Chloride	ND		0.0250	1	05/04/2019 21:42	WG1276189
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	05/04/2019 21:42	WG1276189
Methyl tert-butyl ether	ND		0.00100	1	05/04/2019 21:42	WG1276189
Naphthalene	ND		0.0125	1	05/04/2019 21:42	WG1276189
n-Propylbenzene	ND		0.00500	1	05/04/2019 21:42	WG1276189
Styrene	ND		0.0125	1	05/04/2019 21:42	WG1276189
1,1,1,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
1,1,2,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 21:42	WG1276189

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
Tetrachloroethene	ND		0.00250	1	05/04/2019 21:42	WG1276189
Toluene	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,2,3-Trichlorobenzene	ND		0.00250	1	05/04/2019 21:42	WG1276189
1,2,4-Trichlorobenzene	ND		0.0125	1	05/04/2019 21:42	WG1276189
1,1,1-Trichloroethane	ND	J4	0.00250	1	05/04/2019 21:42	WG1276189
1,1,2-Trichloroethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
Trichloroethene	ND		0.00100	1	05/04/2019 21:42	WG1276189
Trichlorofluoromethane	ND		0.00250	1	05/04/2019 21:42	WG1276189
1,2,3-Trichloropropane	ND		0.0125	1	05/04/2019 21:42	WG1276189
1,2,4-Trimethylbenzene	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,2,3-Trimethylbenzene	ND		0.00500	1	05/04/2019 21:42	WG1276189
1,3,5-Trimethylbenzene	ND		0.00500	1	05/04/2019 21:42	WG1276189
Vinyl chloride	ND		0.00250	1	05/04/2019 21:42	WG1276189
Xylenes, Total	ND		0.00650	1	05/04/2019 21:42	WG1276189
(S) Toluene-d8	*102*		*75.0-131*		*05/04/2019 21:42*	WG1276189
(S) 4-Bromofluorobenzene	*95.0*		*67.0-138*		*05/04/2019 21:42*	WG1276189
(S) 1,2-Dichloroethane-d4	*94.0*		*70.0-130*		*05/04/2019 21:42*	WG1276189

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	85.1		1	05/09/2019 12:37	WG1277420

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	05/04/2019 22:01	WG1276189
Acrylonitrile	ND		0.0125	1	05/04/2019 22:01	WG1276189
Benzene	ND		0.00100	1	05/04/2019 22:01	WG1276189
Bromobenzene	ND		0.0125	1	05/04/2019 22:01	WG1276189
Bromodichloromethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
Bromoform	ND		0.0250	1	05/04/2019 22:01	WG1276189
Bromomethane	ND		0.0125	1	05/04/2019 22:01	WG1276189
n-Butylbenzene	ND		0.0125	1	05/04/2019 22:01	WG1276189
sec-Butylbenzene	ND		0.0125	1	05/04/2019 22:01	WG1276189
tert-Butylbenzene	ND		0.00500	1	05/04/2019 22:01	WG1276189
Carbon tetrachloride	ND	J4	0.00500	1	05/04/2019 22:01	WG1276189
Chlorobenzene	ND	J4	0.00250	1	05/04/2019 22:01	WG1276189
Chlorodibromomethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
Chloroethane	ND		0.00500	1	05/04/2019 22:01	WG1276189
Chloroform	ND		0.00250	1	05/04/2019 22:01	WG1276189
Chloromethane	ND		0.0125	1	05/04/2019 22:01	WG1276189
2-Chlorotoluene	ND		0.00250	1	05/04/2019 22:01	WG1276189
4-Chlorotoluene	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	05/04/2019 22:01	WG1276189
1,2-Dibromoethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
Dibromomethane	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,2-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,3-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,4-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:01	WG1276189
Dichlorodifluoromethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
1,1-Dichloroethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
1,2-Dichloroethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
1,1-Dichloroethene	ND		0.00250	1	05/04/2019 22:01	WG1276189
cis-1,2-Dichloroethene	0.0384		0.00250	1	05/04/2019 22:01	WG1276189
trans-1,2-Dichloroethene	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,2-Dichloropropane	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,1-Dichloropropene	ND		0.00250	1	05/04/2019 22:01	WG1276189
1,3-Dichloropropane	ND		0.00500	1	05/04/2019 22:01	WG1276189
cis-1,3-Dichloropropene	ND		0.00250	1	05/04/2019 22:01	WG1276189
trans-1,3-Dichloropropene	ND		0.00500	1	05/04/2019 22:01	WG1276189
2,2-Dichloropropane	ND		0.00250	1	05/04/2019 22:01	WG1276189
Di-isopropyl ether	ND		0.00100	1	05/04/2019 22:01	WG1276189
Ethylbenzene	ND		0.00250	1	05/04/2019 22:01	WG1276189
Hexachloro-1,3-butadiene	ND		0.0250	1	05/04/2019 22:01	WG1276189
Isopropylbenzene	ND		0.00250	1	05/04/2019 22:01	WG1276189
p-Isopropyltoluene	ND		0.00500	1	05/04/2019 22:01	WG1276189
2-Butanone (MEK)	ND		0.0250	1	05/04/2019 22:01	WG1276189
Methylene Chloride	ND		0.0250	1	05/04/2019 22:01	WG1276189
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	05/04/2019 22:01	WG1276189
Methyl tert-butyl ether	ND		0.00100	1	05/04/2019 22:01	WG1276189
Naphthalene	ND		0.0125	1	05/04/2019 22:01	WG1276189
n-Propylbenzene	ND		0.00500	1	05/04/2019 22:01	WG1276189
Styrene	ND		0.0125	1	05/04/2019 22:01	WG1276189
1,1,1,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
1,1,2,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 22:01	WG1276189

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
Tetrachloroethene	0.603		0.00250	1	05/04/2019 22:01	WG1276189
Toluene	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,2,3-Trichlorobenzene	ND		0.00250	1	05/04/2019 22:01	WG1276189
1,2,4-Trichlorobenzene	ND		0.0125	1	05/04/2019 22:01	WG1276189
1,1,1-Trichloroethane	ND	J4	0.00250	1	05/04/2019 22:01	WG1276189
1,1,2-Trichloroethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
Trichloroethene	0.107		0.00100	1	05/04/2019 22:01	WG1276189
Trichlorofluoromethane	ND		0.00250	1	05/04/2019 22:01	WG1276189
1,2,3-Trichloropropane	ND		0.0125	1	05/04/2019 22:01	WG1276189
1,2,4-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,2,3-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:01	WG1276189
1,3,5-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:01	WG1276189
Vinyl chloride	ND		0.00250	1	05/04/2019 22:01	WG1276189
Xylenes, Total	ND		0.00650	1	05/04/2019 22:01	WG1276189
(S) Toluene-d8	*97.8*		*75.0-131*		*05/04/2019 22:01*	WG1276189
(S) 4-Bromofluorobenzene	*95.3*		*67.0-138*		*05/04/2019 22:01*	WG1276189
(S) 1,2-Dichloroethane-d4	*90.8*		*70.0-130*		*05/04/2019 22:01*	WG1276189

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	83.4		1	05/09/2019 12:37	WG1277420

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	ND		0.0250	1	05/04/2019 22:20	WG1276189
Acrylonitrile	ND		0.0125	1	05/04/2019 22:20	WG1276189
Benzene	ND		0.00100	1	05/04/2019 22:20	WG1276189
Bromobenzene	ND		0.0125	1	05/04/2019 22:20	WG1276189
Bromodichloromethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
Bromoform	ND		0.0250	1	05/04/2019 22:20	WG1276189
Bromomethane	ND		0.0125	1	05/04/2019 22:20	WG1276189
n-Butylbenzene	ND		0.0125	1	05/04/2019 22:20	WG1276189
sec-Butylbenzene	ND		0.0125	1	05/04/2019 22:20	WG1276189
tert-Butylbenzene	ND		0.00500	1	05/04/2019 22:20	WG1276189
Carbon tetrachloride	ND	J4	0.00500	1	05/04/2019 22:20	WG1276189
Chlorobenzene	ND	J4	0.00250	1	05/04/2019 22:20	WG1276189
Chlorodibromomethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
Chloroethane	ND		0.00500	1	05/04/2019 22:20	WG1276189
Chloroform	ND		0.00250	1	05/04/2019 22:20	WG1276189
Chloromethane	ND		0.0125	1	05/04/2019 22:20	WG1276189
2-Chlorotoluene	ND		0.00250	1	05/04/2019 22:20	WG1276189
4-Chlorotoluene	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	05/04/2019 22:20	WG1276189
1,2-Dibromoethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
Dibromomethane	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,2-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,3-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,4-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:20	WG1276189
Dichlorodifluoromethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
1,1-Dichloroethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
1,2-Dichloroethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
1,1-Dichloroethene	ND		0.00250	1	05/04/2019 22:20	WG1276189
cis-1,2-Dichloroethene	0.0389		0.00250	1	05/04/2019 22:20	WG1276189
trans-1,2-Dichloroethene	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,2-Dichloropropane	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,1-Dichloropropene	ND		0.00250	1	05/04/2019 22:20	WG1276189
1,3-Dichloropropane	ND		0.00500	1	05/04/2019 22:20	WG1276189
cis-1,3-Dichloropropene	ND		0.00250	1	05/04/2019 22:20	WG1276189
trans-1,3-Dichloropropene	ND		0.00500	1	05/04/2019 22:20	WG1276189
2,2-Dichloropropane	ND		0.00250	1	05/04/2019 22:20	WG1276189
Di-isopropyl ether	ND		0.00100	1	05/04/2019 22:20	WG1276189
Ethylbenzene	ND		0.00250	1	05/04/2019 22:20	WG1276189
Hexachloro-1,3-butadiene	ND		0.0250	1	05/04/2019 22:20	WG1276189
Isopropylbenzene	ND		0.00250	1	05/04/2019 22:20	WG1276189
p-Isopropyltoluene	ND		0.00500	1	05/04/2019 22:20	WG1276189
2-Butanone (MEK)	ND		0.0250	1	05/04/2019 22:20	WG1276189
Methylene Chloride	ND		0.0250	1	05/04/2019 22:20	WG1276189
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	05/04/2019 22:20	WG1276189
Methyl tert-butyl ether	ND		0.00100	1	05/04/2019 22:20	WG1276189
Naphthalene	ND		0.0125	1	05/04/2019 22:20	WG1276189
n-Propylbenzene	ND		0.00500	1	05/04/2019 22:20	WG1276189
Styrene	ND		0.0125	1	05/04/2019 22:20	WG1276189
1,1,1,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
1,1,2,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 22:20	WG1276189

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
Tetrachloroethene	0.00931		0.00250	1	05/04/2019 22:20	WG1276189
Toluene	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,2,3-Trichlorobenzene	ND		0.00250	1	05/04/2019 22:20	WG1276189
1,2,4-Trichlorobenzene	ND		0.0125	1	05/04/2019 22:20	WG1276189
1,1,1-Trichloroethane	ND	J4	0.00250	1	05/04/2019 22:20	WG1276189
1,1,2-Trichloroethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
Trichloroethene	0.00356		0.00100	1	05/04/2019 22:20	WG1276189
Trichlorofluoromethane	ND		0.00250	1	05/04/2019 22:20	WG1276189
1,2,3-Trichloropropane	ND		0.0125	1	05/04/2019 22:20	WG1276189
1,2,4-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,2,3-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:20	WG1276189
1,3,5-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:20	WG1276189
Vinyl chloride	ND		0.00250	1	05/04/2019 22:20	WG1276189
Xylenes, Total	ND		0.00650	1	05/04/2019 22:20	WG1276189
(S) Toluene-d8	*97.6*		*75.0-131*		*05/04/2019 22:20*	WG1276189
(S) 4-Bromofluorobenzene	*92.6*		*67.0-138*		*05/04/2019 22:20*	WG1276189
(S) 1,2-Dichloroethane-d4	*93.6*		*70.0-130*		*05/04/2019 22:20*	WG1276189

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	74.1		1	05/08/2019 13:56	WG1277422

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0602		0.0250	1	05/04/2019 22:52	WG1276202
Acrylonitrile	ND		0.0125	1	05/04/2019 22:52	WG1276202
Benzene	ND		0.00100	1	05/04/2019 22:52	WG1276202
Bromobenzene	ND		0.0125	1	05/04/2019 22:52	WG1276202
Bromodichloromethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
Bromoform	ND		0.0250	1	05/04/2019 22:52	WG1276202
Bromomethane	ND		0.0125	1	05/04/2019 22:52	WG1276202
n-Butylbenzene	ND		0.0125	1	05/04/2019 22:52	WG1276202
sec-Butylbenzene	ND		0.0125	1	05/04/2019 22:52	WG1276202
tert-Butylbenzene	ND		0.00500	1	05/04/2019 22:52	WG1276202
Carbon tetrachloride	ND		0.00500	1	05/04/2019 22:52	WG1276202
Chlorobenzene	ND		0.00250	1	05/04/2019 22:52	WG1276202
Chlorodibromomethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
Chloroethane	ND		0.00500	1	05/04/2019 22:52	WG1276202
Chloroform	ND		0.00250	1	05/04/2019 22:52	WG1276202
Chloromethane	ND		0.0125	1	05/04/2019 22:52	WG1276202
2-Chlorotoluene	ND		0.00250	1	05/04/2019 22:52	WG1276202
4-Chlorotoluene	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	05/04/2019 22:52	WG1276202
1,2-Dibromoethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
Dibromomethane	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,2-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,3-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,4-Dichlorobenzene	ND		0.00500	1	05/04/2019 22:52	WG1276202
Dichlorodifluoromethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
1,1-Dichloroethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
1,2-Dichloroethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
1,1-Dichloroethene	ND		0.00250	1	05/04/2019 22:52	WG1276202
cis-1,2-Dichloroethene	0.175		0.00250	1	05/04/2019 22:52	WG1276202
trans-1,2-Dichloroethene	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,2-Dichloropropane	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,1-Dichloropropene	ND		0.00250	1	05/04/2019 22:52	WG1276202
1,3-Dichloropropane	ND		0.00500	1	05/04/2019 22:52	WG1276202
cis-1,3-Dichloropropene	ND		0.00250	1	05/04/2019 22:52	WG1276202
trans-1,3-Dichloropropene	ND		0.00500	1	05/04/2019 22:52	WG1276202
2,2-Dichloropropane	ND		0.00250	1	05/04/2019 22:52	WG1276202
Di-isopropyl ether	ND		0.00100	1	05/04/2019 22:52	WG1276202
Ethylbenzene	ND		0.00250	1	05/04/2019 22:52	WG1276202
Hexachloro-1,3-butadiene	ND		0.0250	1	05/04/2019 22:52	WG1276202
Isopropylbenzene	ND		0.00250	1	05/04/2019 22:52	WG1276202
p-Isopropyltoluene	ND		0.00500	1	05/04/2019 22:52	WG1276202
2-Butanone (MEK)	ND		0.0250	1	05/04/2019 22:52	WG1276202
Methylene Chloride	ND		0.0250	1	05/04/2019 22:52	WG1276202
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	05/04/2019 22:52	WG1276202
Methyl tert-butyl ether	ND		0.00100	1	05/04/2019 22:52	WG1276202
Naphthalene	ND		0.0125	1	05/04/2019 22:52	WG1276202
n-Propylbenzene	ND		0.00500	1	05/04/2019 22:52	WG1276202
Styrene	ND		0.0125	1	05/04/2019 22:52	WG1276202
1,1,1,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
1,1,2,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 22:52	WG1276202

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
Tetrachloroethene	0.0122		0.00250	1	05/04/2019 22:52	WG1276202
Toluene	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,2,3-Trichlorobenzene	ND		0.00250	1	05/04/2019 22:52	WG1276202
1,2,4-Trichlorobenzene	ND		0.0125	1	05/04/2019 22:52	WG1276202
1,1,1-Trichloroethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
1,1,2-Trichloroethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
Trichloroethene	0.00229		0.00100	1	05/04/2019 22:52	WG1276202
Trichlorofluoromethane	ND		0.00250	1	05/04/2019 22:52	WG1276202
1,2,3-Trichloropropane	ND		0.0125	1	05/04/2019 22:52	WG1276202
1,2,4-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,2,3-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:52	WG1276202
1,3,5-Trimethylbenzene	ND		0.00500	1	05/04/2019 22:52	WG1276202
Vinyl chloride	0.00331		0.00250	1	05/04/2019 22:52	WG1276202
Xylenes, Total	ND		0.00650	1	05/04/2019 22:52	WG1276202
(S) Toluene-d8	*95.1*		*75.0-131*		*05/04/2019 22:52*	WG1276202
(S) 4-Bromofluorobenzene	*92.3*		*67.0-138*		*05/04/2019 22:52*	WG1276202
(S) 1,2-Dichloroethane-d4	*111*		*70.0-130*		*05/04/2019 22:52*	WG1276202

Total Solids by Method 2540 G-2011

Analyte	Result %	Qualifier	Dilution	Analysis date / time	Batch
Total Solids	72.4		1	05/08/2019 13:56	WG1277422

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
Acetone	0.0252		0.0250	1	05/04/2019 23:13	WG1276202
Acrylonitrile	ND		0.0125	1	05/04/2019 23:13	WG1276202
Benzene	ND		0.00100	1	05/04/2019 23:13	WG1276202
Bromobenzene	ND		0.0125	1	05/04/2019 23:13	WG1276202
Bromodichloromethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
Bromoform	ND		0.0250	1	05/04/2019 23:13	WG1276202
Bromomethane	ND		0.0125	1	05/04/2019 23:13	WG1276202
n-Butylbenzene	ND		0.0125	1	05/04/2019 23:13	WG1276202
sec-Butylbenzene	ND		0.0125	1	05/04/2019 23:13	WG1276202
tert-Butylbenzene	ND		0.00500	1	05/04/2019 23:13	WG1276202
Carbon tetrachloride	ND		0.00500	1	05/04/2019 23:13	WG1276202
Chlorobenzene	ND		0.00250	1	05/04/2019 23:13	WG1276202
Chlorodibromomethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
Chloroethane	ND		0.00500	1	05/04/2019 23:13	WG1276202
Chloroform	ND		0.00250	1	05/04/2019 23:13	WG1276202
Chloromethane	ND		0.0125	1	05/04/2019 23:13	WG1276202
2-Chlorotoluene	ND		0.00250	1	05/04/2019 23:13	WG1276202
4-Chlorotoluene	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,2-Dibromo-3-Chloropropane	ND		0.0250	1	05/04/2019 23:13	WG1276202
1,2-Dibromoethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
Dibromomethane	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,2-Dichlorobenzene	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,3-Dichlorobenzene	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,4-Dichlorobenzene	ND		0.00500	1	05/04/2019 23:13	WG1276202
Dichlorodifluoromethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
1,1-Dichloroethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
1,2-Dichloroethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
1,1-Dichloroethene	ND		0.00250	1	05/04/2019 23:13	WG1276202
cis-1,2-Dichloroethene	0.00972		0.00250	1	05/04/2019 23:13	WG1276202
trans-1,2-Dichloroethene	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,2-Dichloropropane	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,1-Dichloropropene	ND		0.00250	1	05/04/2019 23:13	WG1276202
1,3-Dichloropropane	ND		0.00500	1	05/04/2019 23:13	WG1276202
cis-1,3-Dichloropropene	ND		0.00250	1	05/04/2019 23:13	WG1276202
trans-1,3-Dichloropropene	ND		0.00500	1	05/04/2019 23:13	WG1276202
2,2-Dichloropropane	ND		0.00250	1	05/04/2019 23:13	WG1276202
Di-isopropyl ether	ND		0.00100	1	05/04/2019 23:13	WG1276202
Ethylbenzene	ND		0.00250	1	05/04/2019 23:13	WG1276202
Hexachloro-1,3-butadiene	ND		0.0250	1	05/04/2019 23:13	WG1276202
Isopropylbenzene	ND		0.00250	1	05/04/2019 23:13	WG1276202
p-Isopropyltoluene	ND		0.00500	1	05/04/2019 23:13	WG1276202
2-Butanone (MEK)	ND		0.0250	1	05/04/2019 23:13	WG1276202
Methylene Chloride	ND		0.0250	1	05/04/2019 23:13	WG1276202
4-Methyl-2-pentanone (MIBK)	ND		0.0250	1	05/04/2019 23:13	WG1276202
Methyl tert-butyl ether	ND		0.00100	1	05/04/2019 23:13	WG1276202
Naphthalene	ND		0.0125	1	05/04/2019 23:13	WG1276202
n-Propylbenzene	ND		0.00500	1	05/04/2019 23:13	WG1276202
Styrene	ND		0.0125	1	05/04/2019 23:13	WG1276202
1,1,1,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
1,1,2,2-Tetrachloroethane	ND		0.00250	1	05/04/2019 23:13	WG1276202

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/kg	Qualifier	RDL mg/kg	Dilution	Analysis date / time	Batch
1,1,2-Trichlorotrifluoroethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
Tetrachloroethene	ND		0.00250	1	05/04/2019 23:13	WG1276202
Toluene	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,2,3-Trichlorobenzene	ND		0.00250	1	05/04/2019 23:13	WG1276202
1,2,4-Trichlorobenzene	ND		0.0125	1	05/04/2019 23:13	WG1276202
1,1,1-Trichloroethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
1,1,2-Trichloroethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
Trichloroethene	ND		0.00100	1	05/04/2019 23:13	WG1276202
Trichlorofluoromethane	ND		0.00250	1	05/04/2019 23:13	WG1276202
1,2,3-Trichloropropane	ND		0.0125	1	05/04/2019 23:13	WG1276202
1,2,4-Trimethylbenzene	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,2,3-Trimethylbenzene	ND		0.00500	1	05/04/2019 23:13	WG1276202
1,3,5-Trimethylbenzene	ND		0.00500	1	05/04/2019 23:13	WG1276202
Vinyl chloride	ND		0.00250	1	05/04/2019 23:13	WG1276202
Xylenes, Total	ND		0.00650	1	05/04/2019 23:13	WG1276202
(S) Toluene-d8	*97.0*		*75.0-131*		*05/04/2019 23:13*	WG1276202
(S) 4-Bromofluorobenzene	*95.5*		*67.0-138*		*05/04/2019 23:13*	WG1276202
(S) 1,2-Dichloroethane-d4	*115*		*70.0-130*		*05/04/2019 23:13*	WG1276202

Method Blank (MB)

(MB) R3410029-1 05/09/19 12:37

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1095010-37 Original Sample (OS) • Duplicate (DUP)

(OS) L1095010-37 05/09/19 12:37 • (DUP) R3410029-3 05/09/19 12:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	83.6	83.4	1	0.200		10

Laboratory Control Sample (LCS)

(LCS) R3410029-2 05/09/19 12:37

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3409624-1 05/08/19 13:56

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	%		%	%
Total Solids	0.000			

L1095062-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1095062-01 05/08/19 13:56 • (DUP) R3409624-3 05/08/19 13:56

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	%	%		%		%
Total Solids	100	100	1	0.00880		10

Laboratory Control Sample (LCS)

(LCS) R3409624-2 05/08/19 13:56

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	%	%	%	%	
Total Solids	50.0	50.0	100	85.0-115	

Method Blank (MB)

(MB) R3409591-2 05/04/19 14:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

Method Blank (MB)

(MB) R3409591-2 05/04/19 14:49

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*97.1*			*75.0-131*
(S) 4-Bromofluorobenzene	*95.4*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*94.0*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3409591-1 05/04/19 13:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.628	101	10.0-160	
Acrylonitrile	0.625	0.665	106	45.0-153	
Benzene	0.125	0.111	88.9	70.0-123	
Bromobenzene	0.125	0.123	98.1	73.0-121	
Bromodichloromethane	0.125	0.119	95.6	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3409591-1 05/04/19 13:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.111	88.5	64.0-132	
Bromomethane	0.125	0.0977	78.1	56.0-147	
n-Butylbenzene	0.125	0.133	106	68.0-135	
sec-Butylbenzene	0.125	0.115	91.7	74.0-130	
tert-Butylbenzene	0.125	0.135	108	75.0-127	
Carbon tetrachloride	0.125	0.164	131	66.0-128	J4
Chlorobenzene	0.125	0.0883	70.6	76.0-128	J4
Chlorodibromomethane	0.125	0.131	105	74.0-127	
Chloroethane	0.125	0.0988	79.1	61.0-134	
Chloroform	0.125	0.103	82.1	72.0-123	
Chloromethane	0.125	0.133	106	51.0-138	
2-Chlorotoluene	0.125	0.126	101	75.0-124	
4-Chlorotoluene	0.125	0.133	106	75.0-124	
1,2-Dibromo-3-Chloropropane	0.125	0.120	96.1	59.0-130	
1,2-Dibromoethane	0.125	0.100	80.0	74.0-128	
Dibromomethane	0.125	0.126	101	75.0-122	
1,2-Dichlorobenzene	0.125	0.0994	79.5	76.0-124	
1,3-Dichlorobenzene	0.125	0.143	114	76.0-125	
1,4-Dichlorobenzene	0.125	0.104	83.5	77.0-121	
Dichlorodifluoromethane	0.125	0.145	116	43.0-156	
1,1-Dichloroethane	0.125	0.105	84.4	70.0-127	
1,2-Dichloroethane	0.125	0.123	98.4	65.0-131	
1,1-Dichloroethene	0.125	0.124	99.4	65.0-131	
cis-1,2-Dichloroethene	0.125	0.134	107	73.0-125	
trans-1,2-Dichloroethene	0.125	0.148	118	71.0-125	
1,2-Dichloropropane	0.125	0.132	105	74.0-125	
1,1-Dichloropropene	0.125	0.122	97.9	73.0-125	
1,3-Dichloropropane	0.125	0.141	113	80.0-125	
cis-1,3-Dichloropropene	0.125	0.119	95.5	76.0-127	
trans-1,3-Dichloropropene	0.125	0.138	111	73.0-127	
2,2-Dichloropropane	0.125	0.115	92.0	59.0-135	
Di-isopropyl ether	0.125	0.124	99.0	60.0-136	
Ethylbenzene	0.125	0.112	89.9	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.0914	73.1	57.0-150	
Isopropylbenzene	0.125	0.108	86.6	72.0-127	
p-Isopropyltoluene	0.125	0.134	107	72.0-133	
2-Butanone (MEK)	0.625	0.643	103	30.0-160	
Methylene Chloride	0.125	0.104	83.1	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.555	88.8	56.0-143	
Methyl tert-butyl ether	0.125	0.131	105	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3409591-1 05/04/19 13:08

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.123	98.6	59.0-130	
n-Propylbenzene	0.125	0.108	86.4	74.0-126	
Styrene	0.125	0.130	104	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.107	85.8	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.134	108	68.0-128	
Tetrachloroethene	0.125	0.104	83.3	70.0-136	
Toluene	0.125	0.104	83.0	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.143	114	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.116	93.1	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.116	92.6	62.0-137	
1,1,1-Trichloroethane	0.125	0.163	130	69.0-126	J4
1,1,2-Trichloroethane	0.125	0.122	97.8	78.0-123	
Trichloroethene	0.125	0.124	99.5	76.0-126	
Trichlorofluoromethane	0.125	0.119	95.4	61.0-142	
1,2,3-Trichloropropane	0.125	0.141	113	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.113	90.8	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.112	89.9	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.131	105	73.0-127	
Vinyl chloride	0.125	0.116	92.5	63.0-134	
Xylenes, Total	0.375	0.323	86.1	72.0-127	
(S) Toluene-d8			*95.7*	*75.0-131*	
(S) 4-Bromofluorobenzene			*102*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*99.9*	*70.0-130*	

L1094993-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094993-01 05/04/19 17:15 • (MS) R3409591-3 05/04/19 22:39 • (MSD) R3409591-4 05/04/19 22:58

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	ND	0.337	0.421	54.0	67.3	1	10.0-160			22.0	40
Acrylonitrile	0.625	ND	0.681	0.634	109	101	1	10.0-160			7.08	40
Benzene	0.125	ND	0.115	0.0562	91.6	44.9	1	10.0-149		J3	68.3	37
Bromobenzene	0.125	ND	0.125	0.0838	100	67.0	1	10.0-156		J3	39.8	38
Bromodichloromethane	0.125	ND	0.118	0.0772	94.1	61.7	1	10.0-143		J3	41.5	37
Bromoform	0.125	ND	0.0965	0.0807	77.2	64.5	1	10.0-146			17.9	36
Bromomethane	0.125	ND	0.107	0.0498	85.8	39.8	1	10.0-149		J3	73.1	38
n-Butylbenzene	0.125	ND	0.135	0.0758	108	60.7	1	10.0-160		J3	55.9	40
sec-Butylbenzene	0.125	ND	0.124	0.0643	99.1	51.4	1	10.0-159		J3	63.4	39
tert-Butylbenzene	0.125	ND	0.152	0.0770	122	61.6	1	10.0-156		J3	65.5	39

L1094993-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094993-01 05/04/19 17:15 • (MS) R3409591-3 05/04/19 22:39 • (MSD) R3409591-4 05/04/19 22:58

Analyte	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Carbon tetrachloride	0.125	ND	0.175	0.0683	140	54.6	1	10.0-145		J3	87.5	37
Chlorobenzene	0.125	ND	0.0884	0.0523	70.7	41.9	1	10.0-152		J3	51.2	39
Chlorodibromomethane	0.125	ND	0.125	0.0988	100	79.0	1	10.0-146			23.5	37
Chloroethane	0.125	ND	0.118	0.0538	94.5	43.0	1	10.0-146		J3	74.9	40
Chloroform	0.125	ND	0.101	0.0548	80.4	43.8	1	10.0-146		J3	58.9	37
Chloromethane	0.125	ND	0.168	0.0671	134	53.7	1	10.0-159		J3	85.7	37
2-Chlorotoluene	0.125	ND	0.121	0.0669	96.8	53.6	1	10.0-159		J3	57.6	38
4-Chlorotoluene	0.125	ND	0.137	0.0802	110	64.2	1	10.0-155		J3	52.3	39
1,2-Dibromo-3-Chloropropane	0.125	ND	0.0923	0.0857	73.8	68.5	1	10.0-151			7.43	39
1,2-Dibromoethane	0.125	ND	0.0957	0.0798	76.5	63.9	1	10.0-148			18.0	34
Dibromomethane	0.125	ND	0.118	0.0924	94.8	73.9	1	10.0-147			24.7	35
1,2-Dichlorobenzene	0.125	ND	0.0949	0.0671	75.9	53.7	1	10.0-155			34.3	37
1,3-Dichlorobenzene	0.125	ND	0.145	0.0975	116	78.0	1	10.0-153		J3	39.1	38
1,4-Dichlorobenzene	0.125	ND	0.105	0.0700	84.2	56.0	1	10.0-151		J3	40.1	38
Dichlorodifluoromethane	0.125	ND	0.265	0.0839	212	67.2	1	10.0-160	J5	J3	104	35
1,1-Dichloroethane	0.125	ND	0.103	0.0531	82.7	42.5	1	10.0-147		J3	64.2	37
1,2-Dichloroethane	0.125	ND	0.114	0.0758	91.0	60.6	1	10.0-148		J3	40.1	35
1,1-Dichloroethene	0.125	ND	0.161	0.0601	128	48.1	1	10.0-155		J3	91.1	37
cis-1,2-Dichloroethene	0.125	ND	0.122	0.0649	97.8	51.9	1	10.0-149		J3	61.2	37
trans-1,2-Dichloroethene	0.125	ND	0.147	0.0659	117	52.7	1	10.0-150		J3	75.9	37
1,2-Dichloropropane	0.125	ND	0.137	0.0793	109	63.5	1	10.0-148		J3	53.2	37
1,1-Dichloropropene	0.125	ND	0.131	0.0509	105	40.7	1	10.0-153		J3	88.0	35
1,3-Dichloropropane	0.125	ND	0.139	0.109	111	86.9	1	10.0-154			24.2	35
cis-1,3-Dichloropropene	0.125	ND	0.127	0.0858	102	68.6	1	10.0-151		J3	38.9	37
trans-1,3-Dichloropropene	0.125	ND	0.135	0.103	108	82.1	1	10.0-148			27.0	37
2,2-Dichloropropane	0.125	ND	0.0830	0.0389	66.4	31.1	1	10.0-138		J3	72.4	36
Di-isopropyl ether	0.125	ND	0.110	0.0708	88.2	56.6	1	10.0-147		J3	43.6	36
Ethylbenzene	0.125	ND	0.111	0.0563	88.4	45.0	1	10.0-160		J3	65.1	38
Hexachloro-1,3-butadiene	0.125	ND	0.0886	0.0534	70.9	42.7	1	10.0-160		J3	49.6	40
Isopropylbenzene	0.125	ND	0.104	0.0511	83.6	40.9	1	10.0-155		J3	68.6	38
p-Isopropyltoluene	0.125	ND	0.138	0.0731	110	58.5	1	10.0-160		J3	61.2	40
2-Butanone (MEK)	0.625	ND	0.562	0.521	90.0	83.4	1	10.0-160			7.57	40
Methylene Chloride	0.125	ND	0.125	0.0810	99.9	64.8	1	10.0-141		J3	42.6	37
4-Methyl-2-pentanone (MIBK)	0.625	ND	0.424	0.393	67.8	62.9	1	10.0-160			7.53	35
Methyl tert-butyl ether	0.125	ND	0.109	0.0847	87.3	67.7	1	11.0-147			25.2	35
Naphthalene	0.125	ND	0.0911	0.0803	72.9	64.2	1	10.0-160			12.6	36
n-Propylbenzene	0.125	ND	0.116	0.0566	92.8	45.3	1	10.0-158		J3	68.8	38
Styrene	0.125	ND	0.123	0.0773	98.4	61.8	1	10.0-160		J3	45.6	40
1,1,1,2-Tetrachloroethane	0.125	ND	0.0960	0.0635	76.8	50.8	1	10.0-149		J3	40.8	39
1,1,2,2-Tetrachloroethane	0.125	ND	0.0961	0.0823	76.8	65.8	1	10.0-160			15.4	35

L1094993-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1094993-01 05/04/19 17:15 • (MS) R3409591-3 05/04/19 22:39 • (MSD) R3409591-4 05/04/19 22:58

Analyte	Spike Amount mg/kg	Original Result mg/kg	MS Result mg/kg	MSD Result mg/kg	MS Rec. %	MSD Rec. %	Dilution	Rec. Limits %	MS Qualifier	MSD Qualifier	RPD %	RPD Limits %
Tetrachloroethene	0.125	ND	0.106	0.0507	84.7	40.5	1	10.0-156		J3	70.5	39
Toluene	0.125	ND	0.107	0.0561	85.3	44.9	1	10.0-156		J3	62.1	38
1,1,2-Trichlorotrifluoroethane	0.125	ND	0.197	0.0624	157	49.9	1	10.0-160		J3	104	36
1,2,3-Trichlorobenzene	0.125	ND	0.0884	0.0750	70.7	60.0	1	10.0-160			16.4	40
1,2,4-Trichlorobenzene	0.125	ND	0.0906	0.0729	72.5	58.3	1	10.0-160			21.7	40
1,1,1-Trichloroethane	0.125	ND	0.178	0.0723	143	57.8	1	10.0-144		J3	84.6	35
1,1,2-Trichloroethane	0.125	ND	0.120	0.0976	95.8	78.0	1	10.0-160			20.4	35
Trichloroethene	0.125	ND	0.156	0.0823	125	65.8	1	10.0-156		J3	62.2	38
Trichlorofluoromethane	0.125	ND	0.163	0.0532	130	42.5	1	10.0-160		J3	102	40
1,2,3-Trichloropropane	0.125	ND	0.133	0.116	106	92.9	1	10.0-156			13.7	35
1,2,3-Trimethylbenzene	0.125	ND	0.136	0.0864	109	69.1	1	10.0-160		J3	44.8	36
1,2,4-Trimethylbenzene	0.125	ND	0.109	0.0624	87.2	49.9	1	10.0-160		J3	54.4	36
1,3,5-Trimethylbenzene	0.125	ND	0.133	0.0724	107	57.9	1	10.0-160		J3	59.4	38
Vinyl chloride	0.125	ND	0.139	0.0505	111	40.4	1	10.0-160		J3	93.3	37
Xylenes, Total	0.375	ND	0.311	0.169	82.9	45.1	1	10.0-160		J3	59.0	38
(S) Toluene-d8					*95.8*	*97.9*		*75.0-131*				
(S) 4-Bromofluorobenzene					*96.5*	*94.9*		*67.0-138*				
(S) 1,2-Dichloroethane-d4					*94.6*	*92.9*		*70.0-130*				

Method Blank (MB)

(MB) R3408744-3 05/04/19 15:13

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

Method Blank (MB)

(MB) R3408744-3 05/04/19 15:13

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	0.0220	J	0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*98.2*			*75.0-131*
(S) 4-Bromofluorobenzene	*93.7*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*114*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3408744-1 05/04/19 12:52 • (LCSD) R3408744-2 05/04/19 14:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Acetone	0.625	0.621	0.632	99.4	101	10.0-160			1.81	31
Acrylonitrile	0.625	0.699	0.707	112	113	45.0-153			1.08	22
Benzene	0.125	0.129	0.124	103	99.4	70.0-123			3.39	20
Bromobenzene	0.125	0.146	0.142	117	113	73.0-121			2.85	20
Bromodichloromethane	0.125	0.144	0.141	115	113	73.0-121			2.27	20

Volatile Organic Compounds (GC/MS) by Method 8260B

L1095045-04,05

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3408744-1 05/04/19 12:52 • (LCSD) R3408744-2 05/04/19 14:09

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCSD Result mg/kg	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromoform	0.125	0.131	0.128	105	102	64.0-132			2.31	20
Bromomethane	0.125	0.136	0.128	109	102	56.0-147			6.42	20
n-Butylbenzene	0.125	0.142	0.134	114	108	68.0-135			5.54	20
sec-Butylbenzene	0.125	0.135	0.124	108	99.5	74.0-130			8.51	20
tert-Butylbenzene	0.125	0.128	0.119	102	95.5	75.0-127			7.06	20
Carbon tetrachloride	0.125	0.141	0.130	112	104	66.0-128			7.93	20
Chlorobenzene	0.125	0.119	0.114	95.6	91.3	76.0-128			4.60	20
Chlorodibromomethane	0.125	0.125	0.119	100	95.0	74.0-127			5.16	20
Chloroethane	0.125	0.143	0.127	114	102	61.0-134			11.7	20
Chloroform	0.125	0.123	0.119	98.6	95.2	72.0-123			3.58	20
Chloromethane	0.125	0.139	0.130	111	104	51.0-138			7.23	20
2-Chlorotoluene	0.125	0.137	0.129	109	103	75.0-124			5.58	20
4-Chlorotoluene	0.125	0.142	0.134	113	107	75.0-124			5.29	20
1,2-Dibromo-3-Chloropropane	0.125	0.120	0.123	95.8	98.0	59.0-130			2.28	20
1,2-Dibromoethane	0.125	0.121	0.123	96.4	98.0	74.0-128			1.67	20
Dibromomethane	0.125	0.140	0.140	112	112	75.0-122			0.550	20
1,2-Dichlorobenzene	0.125	0.126	0.125	101	99.9	76.0-124			1.14	20
1,3-Dichlorobenzene	0.125	0.125	0.121	100	96.6	76.0-125			3.40	20
1,4-Dichlorobenzene	0.125	0.128	0.124	103	98.8	77.0-121			3.86	20
Dichlorodifluoromethane	0.125	0.184	0.167	147	134	43.0-156			9.69	20
1,1-Dichloroethane	0.125	0.130	0.126	104	101	70.0-127			3.27	20
1,2-Dichloroethane	0.125	0.135	0.139	108	111	65.0-131			3.00	20
1,1-Dichloroethene	0.125	0.122	0.113	97.5	90.1	65.0-131			7.97	20
cis-1,2-Dichloroethene	0.125	0.123	0.121	98.6	96.6	73.0-125			2.06	20
trans-1,2-Dichloroethene	0.125	0.121	0.114	96.5	90.8	71.0-125			6.08	20
1,2-Dichloropropane	0.125	0.136	0.131	109	105	74.0-125			3.15	20
1,1-Dichloropropene	0.125	0.139	0.124	111	99.3	73.0-125			11.2	20
1,3-Dichloropropane	0.125	0.138	0.135	110	108	80.0-125			2.52	20
cis-1,3-Dichloropropene	0.125	0.154	0.150	123	120	76.0-127			3.13	20
trans-1,3-Dichloropropene	0.125	0.148	0.147	118	118	73.0-127			0.600	20
2,2-Dichloropropane	0.125	0.138	0.124	111	99.1	59.0-135			10.9	20
Di-isopropyl ether	0.125	0.125	0.122	100	97.8	60.0-136			2.57	20
Ethylbenzene	0.125	0.120	0.110	96.2	88.2	74.0-126			8.65	20
Hexachloro-1,3-butadiene	0.125	0.141	0.129	113	103	57.0-150			8.55	20
Isopropylbenzene	0.125	0.117	0.108	93.5	86.2	72.0-127			8.12	20
p-Isopropyltoluene	0.125	0.132	0.122	105	97.5	72.0-133			7.67	20
2-Butanone (MEK)	0.625	0.692	0.684	111	109	30.0-160			1.15	24
Methylene Chloride	0.125	0.125	0.125	99.7	99.7	68.0-123			0.0729	20
4-Methyl-2-pentanone (MIBK)	0.625	0.649	0.631	104	101	56.0-143			2.79	20
Methyl tert-butyl ether	0.125	0.131	0.129	105	103	66.0-132			1.15	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3408744-1 05/04/19 12:52 • (LCSD) R3408744-2 05/04/19 14:09

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/kg	mg/kg	mg/kg	%	%	%			%	%
Naphthalene	0.125	0.118	0.118	94.5	94.4	59.0-130			0.194	20
n-Propylbenzene	0.125	0.140	0.130	112	104	74.0-126			7.27	20
Styrene	0.125	0.115	0.112	92.3	89.7	72.0-127			2.82	20
1,1,1,2-Tetrachloroethane	0.125	0.116	0.113	92.4	90.6	74.0-129			2.02	20
1,1,2,2-Tetrachloroethane	0.125	0.144	0.148	116	118	68.0-128			2.43	20
Tetrachloroethene	0.125	0.120	0.113	95.8	90.2	70.0-136			6.00	20
Toluene	0.125	0.119	0.111	95.5	88.7	75.0-121			7.32	20
1,1,2-Trichlorotrifluoroethane	0.125	0.126	0.119	100	95.5	61.0-139			5.04	20
1,2,3-Trichlorobenzene	0.125	0.125	0.129	99.9	103	59.0-139			3.19	20
1,2,4-Trichlorobenzene	0.125	0.131	0.130	105	104	62.0-137			0.618	20
1,1,1-Trichloroethane	0.125	0.132	0.128	105	102	69.0-126			3.22	20
1,1,2-Trichloroethane	0.125	0.128	0.125	102	100	78.0-123			1.91	20
Trichloroethene	0.125	0.122	0.117	97.4	93.4	76.0-126			4.27	20
Trichlorofluoromethane	0.125	0.145	0.128	116	102	61.0-142			12.4	20
1,2,3-Trichloropropane	0.125	0.151	0.149	121	119	67.0-129			1.29	20
1,2,3-Trimethylbenzene	0.125	0.133	0.127	106	101	74.0-124			4.69	20
1,2,4-Trimethylbenzene	0.125	0.132	0.128	106	103	70.0-126			2.83	20
1,3,5-Trimethylbenzene	0.125	0.135	0.126	108	101	73.0-127			6.72	20
Vinyl chloride	0.125	0.150	0.138	120	111	63.0-134			7.90	20
Xylenes, Total	0.375	0.355	0.337	94.7	89.9	72.0-127			5.20	20
(S) Toluene-d8				*96.8*	*96.1*	*75.0-131*				
(S) 4-Bromofluorobenzene				*95.6*	*97.1*	*67.0-138*				
(S) 1,2-Dichloroethane-d4				*115*	*117*	*70.0-130*				

Method Blank (MB)

(MB) R3409964-2 05/09/19 09:55

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/kg		mg/kg	mg/kg
Acetone	U		0.0137	0.0250
Acrylonitrile	U		0.00190	0.0125
Benzene	U		0.000400	0.00100
Bromobenzene	U		0.00105	0.0125
Bromodichloromethane	U		0.000788	0.00250
Bromoform	U		0.00598	0.0250
Bromomethane	U		0.00370	0.0125
n-Butylbenzene	U		0.00384	0.0125
sec-Butylbenzene	U		0.00253	0.0125
tert-Butylbenzene	U		0.00155	0.00500
Carbon tetrachloride	U		0.00108	0.00500
Chlorobenzene	U		0.000573	0.00250
Chlorodibromomethane	U		0.000450	0.00250
Chloroethane	U		0.00108	0.00500
Chloroform	U		0.000415	0.00250
Chloromethane	U		0.00139	0.0125
2-Chlorotoluene	U		0.000920	0.00250
4-Chlorotoluene	U		0.00113	0.00500
1,2-Dibromo-3-Chloropropane	U		0.00510	0.0250
1,2-Dibromoethane	U		0.000525	0.00250
Dibromomethane	U		0.00100	0.00500
1,2-Dichlorobenzene	U		0.00145	0.00500
1,3-Dichlorobenzene	U		0.00170	0.00500
1,4-Dichlorobenzene	U		0.00197	0.00500
Dichlorodifluoromethane	U		0.000818	0.00250
1,1-Dichloroethane	U		0.000575	0.00250
1,2-Dichloroethane	U		0.000475	0.00250
1,1-Dichloroethene	U		0.000500	0.00250
cis-1,2-Dichloroethene	U		0.000690	0.00250
trans-1,2-Dichloroethene	U		0.00143	0.00500
1,2-Dichloropropane	U		0.00127	0.00500
1,1-Dichloropropene	U		0.000700	0.00250
1,3-Dichloropropane	U		0.00175	0.00500
cis-1,3-Dichloropropene	U		0.000678	0.00250
trans-1,3-Dichloropropene	U		0.00153	0.00500
2,2-Dichloropropane	U		0.000793	0.00250
Di-isopropyl ether	U		0.000350	0.00100
Ethylbenzene	U		0.000530	0.00250
Hexachloro-1,3-butadiene	U		0.0127	0.0250
Isopropylbenzene	U		0.000863	0.00250

Method Blank (MB)

(MB) R3409964-2 05/09/19 09:55

Analyte	MB Result mg/kg	MB Qualifier	MB MDL mg/kg	MB RDL mg/kg
p-Isopropyltoluene	U		0.00233	0.00500
2-Butanone (MEK)	U		0.0125	0.0250
Methylene Chloride	U		0.00664	0.0250
4-Methyl-2-pentanone (MIBK)	U		0.0100	0.0250
Methyl tert-butyl ether	U		0.000295	0.00100
Naphthalene	U		0.00312	0.0125
n-Propylbenzene	U		0.00118	0.00500
Styrene	U		0.00273	0.0125
1,1,1,2-Tetrachloroethane	U		0.000500	0.00250
1,1,2,2-Tetrachloroethane	U		0.000390	0.00250
Tetrachloroethene	U		0.000700	0.00250
Toluene	U		0.00125	0.00500
1,1,2-Trichlorotrifluoroethane	U		0.000675	0.00250
1,2,3-Trichlorobenzene	U		0.000625	0.00250
1,2,4-Trichlorobenzene	U		0.00482	0.0125
1,1,1-Trichloroethane	U		0.000275	0.00250
1,1,2-Trichloroethane	U		0.000883	0.00250
Trichloroethene	U		0.000400	0.00100
Trichlorofluoromethane	U		0.000500	0.00250
1,2,3-Trichloropropane	U		0.00510	0.0125
1,2,3-Trimethylbenzene	U		0.00115	0.00500
1,2,4-Trimethylbenzene	U		0.00116	0.00500
1,3,5-Trimethylbenzene	U		0.00108	0.00500
Vinyl chloride	U		0.000683	0.00250
Xylenes, Total	U		0.00478	0.00650
(S) Toluene-d8	*106*			*75.0-131*
(S) 4-Bromofluorobenzene	*102*			*67.0-138*
(S) 1,2-Dichloroethane-d4	*82.7*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3409964-1 05/09/19 08:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.625	0.566	90.5	10.0-160	
Acrylonitrile	0.625	0.427	68.2	45.0-153	
Benzene	0.125	0.142	114	70.0-123	
Bromobenzene	0.125	0.128	103	73.0-121	
Bromodichloromethane	0.125	0.109	87.2	73.0-121	

Laboratory Control Sample (LCS)

(LCS) R3409964-1 05/09/19 08:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromoform	0.125	0.139	111	64.0-132	
Bromomethane	0.125	0.121	97.2	56.0-147	
n-Butylbenzene	0.125	0.109	87.4	68.0-135	
sec-Butylbenzene	0.125	0.0980	78.4	74.0-130	
tert-Butylbenzene	0.125	0.0969	77.6	75.0-127	
Carbon tetrachloride	0.125	0.114	91.2	66.0-128	
Chlorobenzene	0.125	0.123	98.2	76.0-128	
Chlorodibromomethane	0.125	0.154	123	74.0-127	
Chloroethane	0.125	0.101	80.6	61.0-134	
Chloroform	0.125	0.115	91.6	72.0-123	
Chloromethane	0.125	0.0873	69.9	51.0-138	
2-Chlorotoluene	0.125	0.128	102	75.0-124	
4-Chlorotoluene	0.125	0.0842	67.4	75.0-124	J4
1,2-Dibromo-3-Chloropropane	0.125	0.0927	74.2	59.0-130	
1,2-Dibromoethane	0.125	0.135	108	74.0-128	
Dibromomethane	0.125	0.122	97.6	75.0-122	
1,2-Dichlorobenzene	0.125	0.141	113	76.0-124	
1,3-Dichlorobenzene	0.125	0.103	82.0	76.0-125	
1,4-Dichlorobenzene	0.125	0.106	85.0	77.0-121	
Dichlorodifluoromethane	0.125	0.109	87.0	43.0-156	
1,1-Dichloroethane	0.125	0.127	102	70.0-127	
1,2-Dichloroethane	0.125	0.121	97.0	65.0-131	
1,1-Dichloroethene	0.125	0.120	95.9	65.0-131	
cis-1,2-Dichloroethene	0.125	0.116	92.6	73.0-125	
trans-1,2-Dichloroethene	0.125	0.0903	72.2	71.0-125	
1,2-Dichloropropane	0.125	0.120	96.2	74.0-125	
1,1-Dichloropropene	0.125	0.105	84.2	73.0-125	
1,3-Dichloropropane	0.125	0.111	88.9	80.0-125	
cis-1,3-Dichloropropene	0.125	0.0948	75.9	76.0-127	J4
trans-1,3-Dichloropropene	0.125	0.115	91.6	73.0-127	
2,2-Dichloropropane	0.125	0.137	110	59.0-135	
Di-isopropyl ether	0.125	0.0894	71.5	60.0-136	
Ethylbenzene	0.125	0.150	120	74.0-126	
Hexachloro-1,3-butadiene	0.125	0.132	105	57.0-150	
Isopropylbenzene	0.125	0.127	102	72.0-127	
p-Isopropyltoluene	0.125	0.108	86.4	72.0-133	
2-Butanone (MEK)	0.625	0.520	83.2	30.0-160	
Methylene Chloride	0.125	0.115	91.9	68.0-123	
4-Methyl-2-pentanone (MIBK)	0.625	0.525	84.0	56.0-143	
Methyl tert-butyl ether	0.125	0.101	81.1	66.0-132	

Laboratory Control Sample (LCS)

(LCS) R3409964-1 05/09/19 08:18

Analyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
Naphthalene	0.125	0.101	80.5	59.0-130	
n-Propylbenzene	0.125	0.101	80.6	74.0-126	
Styrene	0.125	0.138	111	72.0-127	
1,1,1,2-Tetrachloroethane	0.125	0.109	87.5	74.0-129	
1,1,2,2-Tetrachloroethane	0.125	0.0910	72.8	68.0-128	
Tetrachloroethene	0.125	0.114	91.2	70.0-136	
Toluene	0.125	0.111	88.5	75.0-121	
1,1,2-Trichlorotrifluoroethane	0.125	0.122	97.3	61.0-139	
1,2,3-Trichlorobenzene	0.125	0.160	128	59.0-139	
1,2,4-Trichlorobenzene	0.125	0.159	127	62.0-137	
1,1,1-Trichloroethane	0.125	0.151	120	69.0-126	
1,1,2-Trichloroethane	0.125	0.145	116	78.0-123	
Trichloroethene	0.125	0.131	105	76.0-126	
Trichlorofluoromethane	0.125	0.104	82.8	61.0-142	
1,2,3-Trichloropropane	0.125	0.101	80.9	67.0-129	
1,2,3-Trimethylbenzene	0.125	0.114	91.5	74.0-124	
1,2,4-Trimethylbenzene	0.125	0.103	82.3	70.0-126	
1,3,5-Trimethylbenzene	0.125	0.0928	74.2	73.0-127	
Vinyl chloride	0.125	0.118	94.7	63.0-134	
Xylenes, Total	0.375	0.417	111	72.0-127	
(S) Toluene-d8			*104*	*75.0-131*	
(S) 4-Bromofluorobenzene			*104*	*67.0-138*	
(S) 1,2-Dichloroethane-d4			*88.8*	*70.0-130*	

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
J	The identification of the analyte is acceptable; the reported value is an estimate.
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.

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Leesburg, VA 20176

Billing Information:
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Leesburg, VA 20178-7406

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
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Report to: **Winthrop McCormack**

Email To: **winthrop@clendeninconsulting.com**

Project Description: **Amato Property**

City/State Collected: **Maryland**

Phone: **703-771-8816**
Fax:

Client Project # **18006**

Lab Project #

L# L1095045

Table # F-251

Collected by (print): Winthrop McCormack

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed
Standard TAT

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No of Cntrs	V8260 40mlAmb/MeOH5ml/Syr	Remarks	Sample # (lab only)
P-1	Comp	SS	0-10'	5/2/2019	8:45am	1	X		-01
P-2	Grab	SS	3'	5/2/2019	9:10am	1	X		-02
P-3	Comp	SS	0-10'	5/2/2019	9:30am	1	X		-03
P-4	Grab	SS	9'	5/2/2019	9:45am	1	X		-04
P-5	Comp	SS	0-10'	5/2/2019	10:00am	1	X		-05
B-14	Grab	SS	4'	5/2/2019	11:00am	1	X		-06

RAD S[illegible] mR/hr

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier __ _____

Tracking # 7751 2211 7390

Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: ✓Y __N
Bottles arrive intact: ✓Y __N
Correct bottles used: ✓Y __N
Sufficient volume sent: ✓Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes (No) HCL / MeoH TBR	
	5-2-2019	3:37pm			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C 1.3 to 1.8 Bottles Received: 6 PN AL	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) YWillis	Date: 5/3/19 Time: 8:45	Hold: Condition: NCF / OK

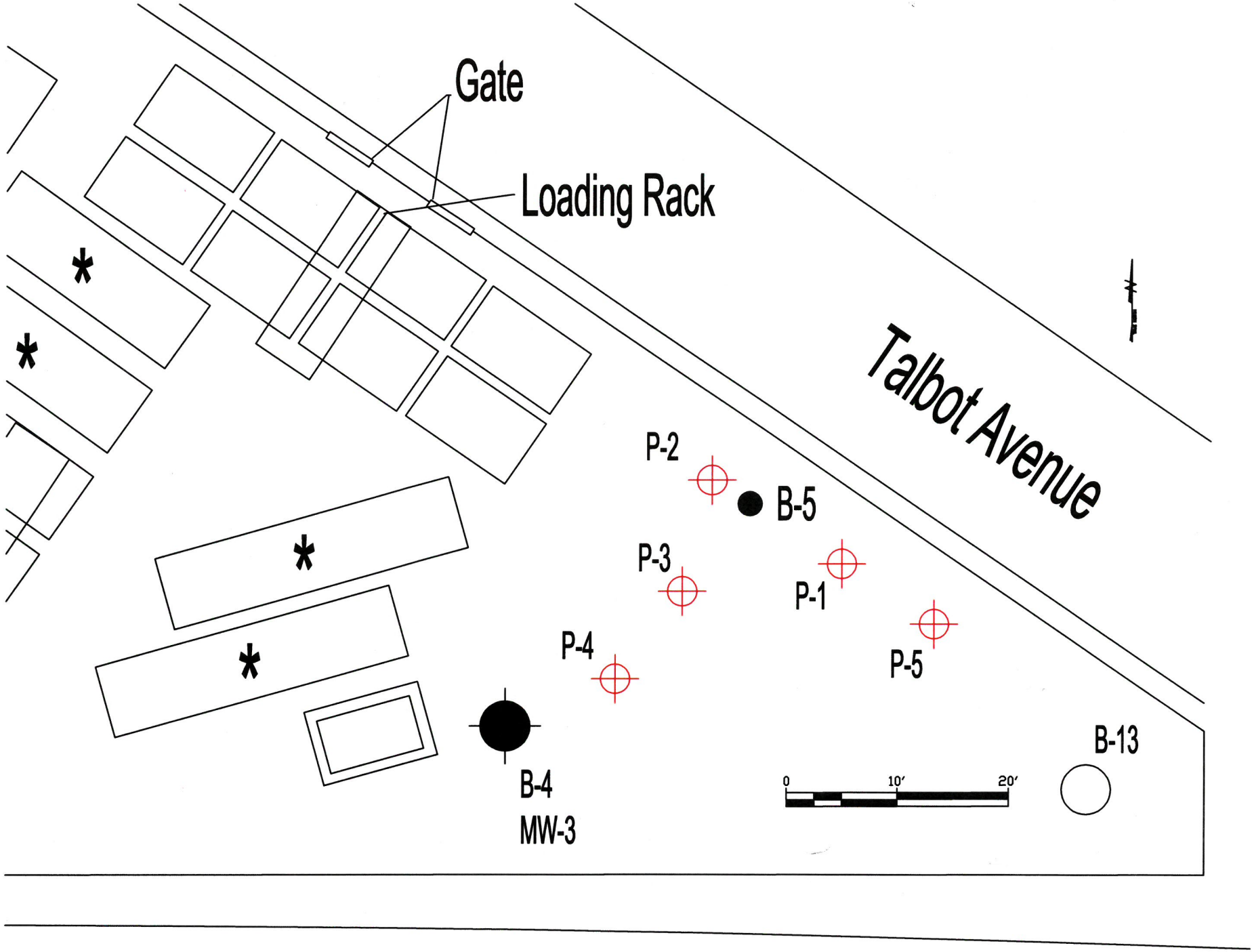

Figure 1, Project #18006

Amato Property/9120 Talbot Ave
18006 - 5/23/2019
Laboratory Results - Geoprobe Soil Exploration near B-2 and B-5

	G-1	G-2	G-5	G-6	G-7	G-8	G-9	G-10	G-11	G-12	CG-13	P-1	P-2	P-3	P-4	P-5
Sample Depths	2'	2.5-5'	0-1.5'	5'	5'	2.5-5'	0-2'	5'	2.5-5'	2.5-5'	n/a	0-10'	3'	0-10'	9'	0-10'
PID	398	412	788	5000+	175	1009	5000+	5000+	289	209	n/a	50	70	14	128	1
Acetone	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0602	0.0252
Benzene	ND	0.00317	ND	ND	0.017	0.0289	ND	ND	0.00229	0.038	0.00213	ND	ND	ND	ND	ND
n-Butylbenzene	0.115	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	0.104	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	ND	ND	ND	ND	ND	ND	ND	ND	0.0132	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	0.506	13.3	0.32	1.83	ND	0.0609	ND	ND	0.664	ND	0.0421	0.00446	0.0384	0.0389	0.175	0.00972
trans-1,2-Dichloroethene	ND	0.254	ND	ND	ND	0.00763	ND	ND	0.0879	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	0.0215	0.00648	ND	ND	0.00359	0.0175	ND	ND	ND	0.015	ND	ND	ND	ND	ND	ND
Isopropylbenzene	ND	0.00269	ND	ND	ND	ND	ND	ND	ND	0.00647	ND	ND	ND	ND	ND	ND
p-Isopropyltoluene	0.138	ND	ND	2.14	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Butanone (MEK)	ND	0.0278	ND	ND	ND	ND	ND	ND	ND	0.0285	ND	ND	ND	ND	ND	ND
Methyl tert-butyl ether	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	0.34	ND	ND	7.58	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	0.0724	ND	ND	1.19	ND	ND	ND	ND	ND	0.022	ND	ND	ND	ND	ND	ND
Tetrachloroethene	9.87	0.239	359	4270	0.058	0.424	1160	420	10.7	0.0568	0.444	ND	0.603	0.00931	0.0122	ND
Toluene	ND	0.0101	ND	ND	ND	0.00533	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethene	ND	ND	ND	4.31	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethene	0.0894	0.0256	7.37	52.2	0.00204	0.25	0.468	1.27	0.945	ND	0.0357	ND	0.107	0.00356	0.00229	ND
1,2,4-Trimethylbenzene	0.601	0.0198	ND	11.2	ND	0.0125	ND	1.89	ND	0.0139	0.00951	ND	ND	ND	ND	ND
1,2,3-Trimethylbenzene	0.342	0.0159	ND	7.56	ND	0.00748	ND	1.46	ND	0.00676	0.0111	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	0.307	0.00837	ND	4.15	ND	ND	ND	0.713	ND	0.00792	0.0053	ND	ND	ND	ND	ND
Vinyl Chloride	ND	0.27	ND	ND	ND	ND	ND	ND	0.044	ND	ND	ND	ND	ND	0.00331	ND
Xylenes, Total	0.0581	0.0257	ND	2.88	0.027	0.0406	ND	ND	0.00684	0.094	ND	ND	ND	ND	ND	ND

Notes:

1) mg/kg
2) ND - Non-Detect
3) Only analytes that have one or more detections are shown
4) CG-13 is a composite sample analyzed for Clean Earth
5) Results recorded in red are above EPA's Regional Screening Levels for Composite Worker for November 2018
6) Samples G-1 through CG-13 were taken near B-2 and P-1 through P-5 were taken near B-5

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6/6/2019
Mr. Winthrop McCormack
Clendenin Consulting & Remediation Group
116-C2 Edwards Ferry Road

Leesburg VA 20176

Project Name: Amato Industries/9120 Talbot Ave
Project #: 18006
Workorder #: 1905530

Dear Mr. Winthrop McCormack

The following report includes the data for the above referenced project for sample(s) received on 5/24/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1905530

Work Order Summary

CLIENT:	Mr. Winthrop McCormack Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176	**BILL TO:**	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176
PHONE:	703-771-8816	**P.O. #**	
FAX:	703-771-8825	**PROJECT #**	18006 Amato Industries/9120 Talbot Ave
DATE RECEIVED:	05/24/2019	**CONTACT:**	Ausha Scott
DATE COMPLETED:	06/06/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	A-8	Modified TO-15	7.1 "Hg	5.3 psi
01B	A-8	Modified TO-15	7.1 "Hg	5.3 psi
02A	A-9	Modified TO-15	7.8 "Hg	4.9 psi
02B	A-9	Modified TO-15	7.8 "Hg	4.9 psi
03A	Lab Blank	Modified TO-15	NA	NA
03B	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
04B	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA
05B	LCS	Modified TO-15	NA	NA
05BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 06/06/19

Certification numbers: AZ Licensure AZ0775, NJ NELAP - CA016, NY NELAP - 11291,
TX NELAP - T104704434-15-9, UT NELAP CA0093332015-6, VA NELAP - 8113, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005, Effective date: 10/18/2015, Expiration date: 10/17/2016.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

This report shall not be reproduced, except in full, without the written approval of Eurofins Air Toxics, Inc.

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Clendenin Consulting & Remediation Group
Workorder# 1905530

Two 6 Liter Summa Canister (100% SIM Ambient) samples were received on May 24, 2019. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Dilution was performed on samples A-8 and A-9 due to the presence of high level target species.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-8

Lab ID#: 1905530-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.36	0.84	0.79	1.9
Ethanol	1.8	190 E	3.4	360 E
Acetone	3.6	15	8.4	36
2-Propanol	1.8	2.5	4.4	6.2
Methylene Chloride	0.71	0.94	2.5	3.3
Hexane	1.8	5.5	6.3	19
Cyclohexane	0.36	1.4	1.2	5.0
2,2,4-Trimethylpentane	1.8	5.8	8.3	27
Heptane	0.36	2.6	1.4	10
4-Methyl-2-pentanone	0.36	0.40	1.4	1.6
Propylbenzene	0.36	0.65	1.8	3.2
4-Ethyltoluene	0.36	3.9	1.8	19
1,3,5-Trimethylbenzene	0.36	1.2	1.8	5.9
1,2,4-Trimethylbenzene	0.36	4.2	1.8	21

Client Sample ID: A-8

Lab ID#: 1905530-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.071	0.49	0.35	2.4
cis-1,2-Dichloroethene	0.071	0.44	0.28	1.7
Chloroform	0.071	0.53	0.35	2.6
1,1,1-Trichloroethane	0.071	0.21	0.39	1.1
Carbon Tetrachloride	0.071	0.14	0.45	0.88
Benzene	0.18	2.5	0.57	7.8
Trichloroethene	0.071	1.2	0.38	6.6
Toluene	0.18	8.9	0.67	34
Tetrachloroethene	0.071	12	0.48	82
Ethyl Benzene	0.071	1.6	0.31	7.0
m,p-Xylene	0.14	6.2	0.62	27
o-Xylene	0.071	2.4	0.31	10

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-9

Lab ID#: 1905530-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.36	1.0	0.80	2.3
Ethanol	1.8	130	3.4	240
Acetone	3.6	11	8.6	26
2-Propanol	1.8	2.1	4.4	5.1
Methylene Chloride	0.72	0.74	2.5	2.6
Hexane	1.8	5.1	6.3	18
Cyclohexane	0.36	0.74	1.2	2.6
2,2,4-Trimethylpentane	1.8	5.0	8.4	24
Heptane	0.36	2.1	1.5	8.5
Styrene	0.36	0.35 J	1.5	1.5 J
Propylbenzene	0.36	0.66	1.8	3.2
4-Ethyltoluene	0.36	4.1	1.8	20
1,3,5-Trimethylbenzene	0.36	1.3	1.8	6.5
1,2,4-Trimethylbenzene	0.36	4.1	1.8	20

Client Sample ID: A-9

Lab ID#: 1905530-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.072	0.48	0.36	2.4
cis-1,2-Dichloroethene	0.072	0.32	0.28	1.3
Chloroform	0.072	0.54	0.35	2.6
1,1,1-Trichloroethane	0.072	0.20	0.39	1.1
Carbon Tetrachloride	0.072	0.13	0.45	0.81
Benzene	0.18	2.5	0.58	7.9
Trichloroethene	0.072	1.1	0.39	6.0
Toluene	0.18	8.9	0.68	34
Tetrachloroethene	0.072	10	0.49	68
Ethyl Benzene	0.072	1.6	0.31	7.0
m,p-Xylene	0.14	6.1	0.62	26
o-Xylene	0.072	2.4	0.31	10

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Client Sample ID: A-8

Lab ID#: 1905530-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053108**	**Date of Collection:**	**5/23/19 1:59:00 PM**
Dil. Factor:	**3.56**	**Date of Analysis:**	**5/31/19 03:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.36	0.84	0.79	1.9
Bromomethane	1.8	Not Detected	6.9	Not Detected
Freon 11	0.36	Not Detected	2.0	Not Detected
Ethanol	1.8	190 E	3.4	360 E
Freon 113	0.36	Not Detected	2.7	Not Detected
Acetone	3.6	15	8.4	36
2-Propanol	1.8	2.5	4.4	6.2
Carbon Disulfide	1.8	Not Detected	5.5	Not Detected
3-Chloropropene	1.8	Not Detected	5.6	Not Detected
Methylene Chloride	0.71	0.94	2.5	3.3
Hexane	1.8	5.5	6.3	19
2-Butanone (Methyl Ethyl Ketone)	1.8	Not Detected	5.2	Not Detected
Tetrahydrofuran	1.8	Not Detected	5.2	Not Detected
Cyclohexane	0.36	1.4	1.2	5.0
2,2,4-Trimethylpentane	1.8	5.8	8.3	27
Heptane	0.36	2.6	1.4	10
1,2-Dichloropropane	0.36	Not Detected	1.6	Not Detected
1,4-Dioxane	0.36	Not Detected	1.3	Not Detected
Bromodichloromethane	0.36	Not Detected	2.4	Not Detected
cis-1,3-Dichloropropene	0.36	Not Detected	1.6	Not Detected
4-Methyl-2-pentanone	0.36	0.40	1.4	1.6
trans-1,3-Dichloropropene	0.36	Not Detected	1.6	Not Detected
2-Hexanone	1.8	Not Detected	7.3	Not Detected
Dibromochloromethane	0.36	Not Detected	3.0	Not Detected
Chlorobenzene	0.36	Not Detected	1.6	Not Detected
Styrene	0.36	Not Detected	1.5	Not Detected
Bromoform	0.36	Not Detected	3.7	Not Detected
Cumene	0.36	Not Detected	1.8	Not Detected
Propylbenzene	0.36	0.65	1.8	3.2
4-Ethyltoluene	0.36	3.9	1.8	19
1,3,5-Trimethylbenzene	0.36	1.2	1.8	5.9
1,2,4-Trimethylbenzene	0.36	4.2	1.8	21
1,3-Dichlorobenzene	0.36	Not Detected	2.1	Not Detected
alpha-Chlorotoluene	0.36	Not Detected	1.8	Not Detected
1,2-Dichlorobenzene	0.36	Not Detected	2.1	Not Detected
1,2,4-Trichlorobenzene	1.8	Not Detected	13	Not Detected
Hexachlorobutadiene	1.8	Not Detected	19	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits

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Client Sample ID: A-8

Lab ID#: 1905530-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053108**	**Date of Collection:**	**5/23/19 1:59:00 PM**
Dil. Factor:	**3.56**	**Date of Analysis:**	**5/31/19 03:26 PM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: A-8

Lab ID#: 1905530-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053108sim**	**Date of Collection:**	**5/23/19 1:59:00 PM**
Dil. Factor:	**3.56**	**Date of Analysis:**	**5/31/19 03:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.071	0.49	0.35	2.4
Freon 114	0.071	Not Detected	0.50	Not Detected
Chloromethane	1.8	Not Detected UJ	3.7	Not Detected UJ
Vinyl Chloride	0.036	Not Detected	0.091	Not Detected
Chloroethane	0.18	Not Detected	0.47	Not Detected
1,1-Dichloroethene	0.036	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.36	Not Detected	1.4	Not Detected
Methyl tert-butyl ether	0.36	Not Detected	1.3	Not Detected
1,1-Dichloroethane	0.071	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.071	0.44	0.28	1.7
Chloroform	0.071	0.53	0.35	2.6
1,1,1-Trichloroethane	0.071	0.21	0.39	1.1
Carbon Tetrachloride	0.071	0.14	0.45	0.88
Benzene	0.18	2.5	0.57	7.8
1,2-Dichloroethane	0.071	Not Detected	0.29	Not Detected
Trichloroethene	0.071	1.2	0.38	6.6
Toluene	0.18	8.9	0.67	34
1,1,2-Trichloroethane	0.071	Not Detected	0.39	Not Detected
Tetrachloroethene	0.071	12	0.48	82
1,2-Dibromoethane (EDB)	0.071	Not Detected	0.55	Not Detected
Ethyl Benzene	0.071	1.6	0.31	7.0
m,p-Xylene	0.14	6.2	0.62	27
o-Xylene	0.071	2.4	0.31	10
1,1,2,2-Tetrachloroethane	0.071	Not Detected	0.49	Not Detected
1,4-Dichlorobenzene	0.071	Not Detected	0.43	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: A-9

Lab ID#: 1905530-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053109**	**Date of Collection:**	**5/23/19 2:02:00 PM**
Dil. Factor:	**3.60**	**Date of Analysis:**	**5/31/19 04:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.36	1.0	0.80	2.3
Bromomethane	1.8	Not Detected	7.0	Not Detected
Freon 11	0.36	Not Detected	2.0	Not Detected
Ethanol	1.8	130	3.4	240
Freon 113	0.36	Not Detected	2.8	Not Detected
Acetone	3.6	11	8.6	26
2-Propanol	1.8	2.1	4.4	5.1
Carbon Disulfide	1.8	Not Detected	5.6	Not Detected
3-Chloropropene	1.8	Not Detected	5.6	Not Detected
Methylene Chloride	0.72	0.74	2.5	2.6
Hexane	1.8	5.1	6.3	18
2-Butanone (Methyl Ethyl Ketone)	1.8	Not Detected	5.3	Not Detected
Tetrahydrofuran	1.8	Not Detected	5.3	Not Detected
Cyclohexane	0.36	0.74	1.2	2.6
2,2,4-Trimethylpentane	1.8	5.0	8.4	24
Heptane	0.36	2.1	1.5	8.5
1,2-Dichloropropane	0.36	Not Detected	1.7	Not Detected
1,4-Dioxane	0.36	Not Detected	1.3	Not Detected
Bromodichloromethane	0.36	Not Detected	2.4	Not Detected
cis-1,3-Dichloropropene	0.36	Not Detected	1.6	Not Detected
4-Methyl-2-pentanone	0.36	Not Detected	1.5	Not Detected
trans-1,3-Dichloropropene	0.36	Not Detected	1.6	Not Detected
2-Hexanone	1.8	Not Detected	7.4	Not Detected
Dibromochloromethane	0.36	Not Detected	3.1	Not Detected
Chlorobenzene	0.36	Not Detected	1.6	Not Detected
Styrene	0.36	0.35 J	1.5	1.5 J
Bromoform	0.36	Not Detected	3.7	Not Detected
Cumene	0.36	Not Detected	1.8	Not Detected
Propylbenzene	0.36	0.66	1.8	3.2
4-Ethyltoluene	0.36	4.1	1.8	20
1,3,5-Trimethylbenzene	0.36	1.3	1.8	6.5
1,2,4-Trimethylbenzene	0.36	4.1	1.8	20
1,3-Dichlorobenzene	0.36	Not Detected	2.2	Not Detected
alpha-Chlorotoluene	0.36	Not Detected	1.9	Not Detected
1,2-Dichlorobenzene	0.36	Not Detected	2.2	Not Detected
1,2,4-Trichlorobenzene	1.8	Not Detected	13	Not Detected
Hexachlorobutadiene	1.8	Not Detected	19	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits

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Client Sample ID: A-9

Lab ID#: 1905530-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053109**	**Date of Collection:**	**5/23/19 2:02:00 PM**
Dil. Factor:	**3.60**	**Date of Analysis:**	**5/31/19 04:06 PM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	117	70-130

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Client Sample ID: A-9

Lab ID#: 1905530-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053109sim**	**Date of Collection:**	**5/23/19 2:02:00 PM**
Dil. Factor:	**3.60**	**Date of Analysis:**	**5/31/19 04:06 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.072	0.48	0.36	2.4
Freon 114	0.072	Not Detected	0.50	Not Detected
Chloromethane	1.8	Not Detected UJ	3.7	Not Detected UJ
Vinyl Chloride	0.036	Not Detected	0.092	Not Detected
Chloroethane	0.18	Not Detected	0.47	Not Detected
1,1-Dichloroethene	0.036	Not Detected	0.14	Not Detected
trans-1,2-Dichloroethene	0.36	Not Detected	1.4	Not Detected
Methyl tert-butyl ether	0.36	Not Detected	1.3	Not Detected
1,1-Dichloroethane	0.072	Not Detected	0.29	Not Detected
cis-1,2-Dichloroethene	0.072	0.32	0.28	1.3
Chloroform	0.072	0.54	0.35	2.6
1,1,1-Trichloroethane	0.072	0.20	0.39	1.1
Carbon Tetrachloride	0.072	0.13	0.45	0.81
Benzene	0.18	2.5	0.58	7.9
1,2-Dichloroethane	0.072	Not Detected	0.29	Not Detected
Trichloroethene	0.072	1.1	0.39	6.0
Toluene	0.18	8.9	0.68	34
1,1,2-Trichloroethane	0.072	Not Detected	0.39	Not Detected
Tetrachloroethene	0.072	10	0.49	68
1,2-Dibromoethane (EDB)	0.072	Not Detected	0.55	Not Detected
Ethyl Benzene	0.072	1.6	0.31	7.0
m,p-Xylene	0.14	6.1	0.62	26
o-Xylene	0.072	2.4	0.31	10
1,1,2,2-Tetrachloroethane	0.072	Not Detected	0.49	Not Detected
1,4-Dichlorobenzene	0.072	Not Detected	0.43	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1905530-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 01:33 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	1.0	Not Detected	2.4	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1905530-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053106**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 01:33 PM**	

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	96	70-130
4-Bromofluorobenzene	116	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1905530-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053106sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 01:33 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected UJ	1.0	Not Detected UJ
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	113	70-130

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Client Sample ID: CCV

Lab ID#: 1905530-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053102**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 09:34 AM**

Compound	%Recovery
1,3-Butadiene	76
Bromomethane	116
Freon 11	110
Ethanol	77
Freon 113	107
Acetone	76
2-Propanol	79
Carbon Disulfide	92
3-Chloropropene	95
Methylene Chloride	85
Hexane	81
2-Butanone (Methyl Ethyl Ketone)	92
Tetrahydrofuran	70
Cyclohexane	100
2,2,4-Trimethylpentane	76
Heptane	80
1,2-Dichloropropane	78
1,4-Dioxane	103
Bromodichloromethane	93
cis-1,3-Dichloropropene	92
4-Methyl-2-pentanone	74
trans-1,3-Dichloropropene	92
2-Hexanone	84
Dibromochloromethane	104
Chlorobenzene	100
Styrene	105
Bromoform	114
Cumene	105
Propylbenzene	97
4-Ethyltoluene	109
1,3,5-Trimethylbenzene	109
1,2,4-Trimethylbenzene	111
1,3-Dichlorobenzene	104
alpha-Chlorotoluene	106
1,2-Dichlorobenzene	110
1,2,4-Trichlorobenzene	120
Hexachlorobutadiene	131 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

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Client Sample ID: CCV

Lab ID#: 1905530-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 09:34 AM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	93	70-130
4-Bromofluorobenzene	118	70-130

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Client Sample ID: CCV

Lab ID#: 1905530-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053102sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 09:34 AM**	

Compound	**%Recovery**
Freon 12	89
Freon 114	99
Chloromethane	69 Q
Vinyl Chloride	80
Chloroethane	95
1,1-Dichloroethene	97
trans-1,2-Dichloroethene	98
Methyl tert-butyl ether	107
1,1-Dichloroethane	86
cis-1,2-Dichloroethene	100
Chloroform	100
1,1,1-Trichloroethane	103
Carbon Tetrachloride	122
Benzene	89
1,2-Dichloroethane	94
Trichloroethene	100
Toluene	97
1,1,2-Trichloroethane	90
Tetrachloroethene	105
1,2-Dibromoethane (EDB)	97
Ethyl Benzene	108
m,p-Xylene	109
o-Xylene	110
1,1,2,2-Tetrachloroethane	84
1,4-Dichlorobenzene	102

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	112	70-130

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Client Sample ID: LCS

Lab ID#: 1905530-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 10:44 AM**	

Compound	**%Recovery**	**Method Limits**
1,3-Butadiene	80	70-130
Bromomethane	126	70-130
Freon 11	116	70-130
Ethanol	82	70-130
Freon 113	112	70-130
Acetone	81	70-130
2-Propanol	87	70-130
Carbon Disulfide	84	70-130
3-Chloropropene	93	70-130
Methylene Chloride	85	70-130
Hexane	85	70-130
2-Butanone (Methyl Ethyl Ketone)	90	70-130
Tetrahydrofuran	74	70-130
Cyclohexane	100	70-130
2,2,4-Trimethylpentane	81	70-130
Heptane	84	70-130
1,2-Dichloropropane	78	70-130
1,4-Dioxane	104	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	80	70-130
trans-1,3-Dichloropropene	96	70-130
2-Hexanone	93	70-130
Dibromochloromethane	107	70-130
Chlorobenzene	103	70-130
Styrene	112	70-130
Bromoform	125	70-130
Cumene	110	70-130
Propylbenzene	104	70-130
4-Ethyltoluene	115	70-130
1,3,5-Trimethylbenzene	115	70-130
1,2,4-Trimethylbenzene	118	70-130
1,3-Dichlorobenzene	113	70-130
alpha-Chlorotoluene	119	70-130
1,2-Dichlorobenzene	121	70-130
1,2,4-Trichlorobenzene	126	70-130
Hexachlorobutadiene	134 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**

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Client Sample ID: LCS

Lab ID#: 1905530-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053103**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 10:44 AM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	89	70-130
Toluene-d8	92	70-130
4-Bromofluorobenzene	115	70-130

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Client Sample ID: LCSD

Lab ID#: 1905530-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 11:24 AM**	

Compound	**%Recovery**	**Method Limits**
1,3-Butadiene	79	70-130
Bromomethane	120	70-130
Freon 11	114	70-130
Ethanol	82	70-130
Freon 113	110	70-130
Acetone	82	70-130
2-Propanol	86	70-130
Carbon Disulfide	83	70-130
3-Chloropropene	94	70-130
Methylene Chloride	83	70-130
Hexane	84	70-130
2-Butanone (Methyl Ethyl Ketone)	89	70-130
Tetrahydrofuran	74	70-130
Cyclohexane	104	70-130
2,2,4-Trimethylpentane	79	70-130
Heptane	82	70-130
1,2-Dichloropropane	82	70-130
1,4-Dioxane	106	70-130
Bromodichloromethane	98	70-130
cis-1,3-Dichloropropene	90	70-130
4-Methyl-2-pentanone	81	70-130
trans-1,3-Dichloropropene	99	70-130
2-Hexanone	98	70-130
Dibromochloromethane	107	70-130
Chlorobenzene	102	70-130
Styrene	110	70-130
Bromoform	124	70-130
Cumene	110	70-130
Propylbenzene	103	70-130
4-Ethyltoluene	114	70-130
1,3,5-Trimethylbenzene	115	70-130
1,2,4-Trimethylbenzene	118	70-130
1,3-Dichlorobenzene	110	70-130
alpha-Chlorotoluene	119	70-130
1,2-Dichlorobenzene	119	70-130
1,2,4-Trichlorobenzene	140 Q	70-130
Hexachlorobutadiene	148 Q	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**

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Client Sample ID: LCSD

Lab ID#: 1905530-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 11:24 AM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	114	70-130

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Client Sample ID: LCS

Lab ID#: 1905530-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053103sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 10:44 AM**	

Compound	%Recovery	Method Limits
Freon 12	93	70-130
Freon 114	107	70-130
Chloromethane	71	70-130
Vinyl Chloride	86	70-130
Chloroethane	103	70-130
1,1-Dichloroethene	100	70-130
trans-1,2-Dichloroethene	86	70-130
Methyl tert-butyl ether	106	70-130
1,1-Dichloroethane	87	70-130
cis-1,2-Dichloroethene	111	70-130
Chloroform	101	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	124	70-130
Benzene	92	70-130
1,2-Dichloroethane	95	70-130
Trichloroethene	103	70-130
Toluene	100	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	110	70-130
1,2-Dibromoethane (EDB)	102	70-130
Ethyl Benzene	112	70-130
m,p-Xylene	114	70-130
o-Xylene	117	70-130
1,1,2,2-Tetrachloroethane	92	70-130
1,4-Dichlorobenzene	111	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: LCSD

Lab ID#: 1905530-05BB

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**20053104sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 5/31/19 11:24 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	92	70-130
Freon 114	107	70-130
Chloromethane	72	70-130
Vinyl Chloride	86	70-130
Chloroethane	103	70-130
1,1-Dichloroethene	101	70-130
trans-1,2-Dichloroethene	87	70-130
Methyl tert-butyl ether	108	70-130
1,1-Dichloroethane	88	70-130
cis-1,2-Dichloroethene	112	70-130
Chloroform	102	70-130
1,1,1-Trichloroethane	105	70-130
Carbon Tetrachloride	124	70-130
Benzene	91	70-130
1,2-Dichloroethane	94	70-130
Trichloroethene	102	70-130
Toluene	98	70-130
1,1,2-Trichloroethane	95	70-130
Tetrachloroethene	111	70-130
1,2-Dibromoethane (EDB)	103	70-130
Ethyl Benzene	113	70-130
m,p-Xylene	114	70-130
o-Xylene	117	70-130
1,1,2,2-Tetrachloroethane	93	70-130
1,4-Dichlorobenzene	110	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	111	70-130

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7/12/2019
Mr. Winthrop McCormack
Clendenin Consulting & Remediation Group
116-C2 Edwards Ferry Road

Leesburg VA 20176

Project Name: Amato Industries/9120 Talbot Ave
Project #: 18006
Workorder #: 1906644

Dear Mr. Winthrop McCormack

The following report includes the data for the above referenced project for sample(s) received on 6/28/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1906644

Work Order Summary

CLIENT:	Mr. Winthrop McCormack Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176	**BILL TO:**	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176
PHONE:	703-771-8816	**P.O. #**	
FAX:	703-771-8825	**PROJECT #**	18006 Amato Industries/9120 Talbot Ave
DATE RECEIVED:	06/28/2019	**CONTACT:**	Ausha Scott
DATE COMPLETED:	07/12/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	A-10	Modified TO-15	5.7 "Hg	5.1 psi
01B	A-10	Modified TO-15	5.7 "Hg	5.1 psi
02A	A-11	Modified TO-15	6.7 "Hg	4.7 psi
02B	A-11	Modified TO-15	6.7 "Hg	4.7 psi
03A	Lab Blank	Modified TO-15	NA	NA
03B	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
04B	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA
05B	LCS	Modified TO-15	NA	NA
05BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 07/12/19

Certification numbers: AZ Licensure AZ0775, FL NELAP - E8 , LA NELAP - 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP CA009332018-10, VA NELAP - 9505, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics LLC. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Clendenin Consulting & Remediation Group
Workorder# 1906644

Two 6 Liter Summa Canister (100% SIM Ambient) samples were received on June 28, 2019. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

The results for each sample in this report were acquired from two separate data files originating from the same analytical run. The two data files have the same base file name and are differentiated with a "sim" extension on the SIM data file.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-10

Lab ID#: 1906644-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.17	1.0	0.37	2.3
Freon 11	0.17	0.22	0.93	1.2
Ethanol	0.83	73 E	1.6	140 E
Acetone	1.7	18	3.9	44
2-Propanol	0.83	27	2.0	67
Hexane	0.83	2.6	2.9	9.0
2-Butanone (Methyl Ethyl Ketone)	0.83	2.0	2.4	5.8
Tetrahydrofuran	0.83	1.1	2.4	3.3
Cyclohexane	0.17	0.56	0.57	1.9
2,2,4-Trimethylpentane	0.83	2.8	3.9	13
Heptane	0.17	1.1	0.68	4.7
4-Methyl-2-pentanone	0.17	0.18	0.68	0.75
Propylbenzene	0.17	0.26	0.82	1.3
4-Ethyltoluene	0.17	1.3	0.82	6.3
1,3,5-Trimethylbenzene	0.17	0.41	0.82	2.0
1,2,4-Trimethylbenzene	0.17	1.2	0.82	6.0

Client Sample ID: A-10

Lab ID#: 1906644-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.47	0.16	2.3
cis-1,2-Dichloroethene	0.033	0.070	0.13	0.28
Chloroform	0.033	0.17	0.16	0.83
1,1,1-Trichloroethane	0.033	0.044	0.18	0.24
Carbon Tetrachloride	0.033	0.087	0.21	0.55
Benzene	0.083	1.6	0.26	5.2
Trichloroethene	0.033	0.26	0.18	1.4
Toluene	0.083	4.0	0.31	15
Tetrachloroethene	0.033	1.8	0.22	12
Ethyl Benzene	0.033	0.64	0.14	2.8
m,p-Xylene	0.066	2.2	0.29	9.4
o-Xylene	0.033	0.82	0.14	3.6

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-11

Lab ID#: 1906644-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.17	1.0	0.38	2.2
Freon 11	0.17	0.23	0.96	1.3
Ethanol	0.85	75 E	1.6	140 E
Acetone	1.7	18	4.0	44
2-Propanol	0.85	28	2.1	68
Hexane	0.85	2.6	3.0	9.2
2-Butanone (Methyl Ethyl Ketone)	0.85	1.9	2.5	5.6
Cyclohexane	0.17	0.55	0.58	1.9
2,2,4-Trimethylpentane	0.85	3.0	4.0	14
Heptane	0.17	1.1	0.70	4.7
4-Methyl-2-pentanone	0.17	0.18	0.70	0.72
Styrene	0.17	0.17	0.72	0.73
Propylbenzene	0.17	0.26	0.84	1.3
4-Ethyltoluene	0.17	1.3	0.84	6.4
1,3,5-Trimethylbenzene	0.17	0.40	0.84	2.0
1,2,4-Trimethylbenzene	0.17	1.3	0.84	6.3

Client Sample ID: A-11

Lab ID#: 1906644-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.48	0.17	2.4
cis-1,2-Dichloroethene	0.034	0.070	0.13	0.28
Chloroform	0.034	0.17	0.17	0.83
1,1,1-Trichloroethane	0.034	0.044	0.18	0.24
Carbon Tetrachloride	0.034	0.084	0.21	0.53
Benzene	0.085	1.6	0.27	5.2
Trichloroethene	0.034	0.26	0.18	1.4
Toluene	0.085	4.1	0.32	16
Tetrachloroethene	0.034	1.8	0.23	12
Ethyl Benzene	0.034	0.63	0.15	2.8
m,p-Xylene	0.068	2.1	0.30	9.3
o-Xylene	0.034	0.82	0.15	3.6

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Client Sample ID: A-10

Lab ID#: 1906644-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070221**	**Date of Collection:**	**6/25/19 2:38:00 PM**
Dil. Factor:	**1.66**	**Date of Analysis:**	**7/3/19 07:17 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.17	1.0	0.37	2.3
Bromomethane	0.83	Not Detected	3.2	Not Detected
Freon 11	0.17	0.22	0.93	1.2
Ethanol	0.83	73 E	1.6	140 E
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	1.7	18	3.9	44
2-Propanol	0.83	27	2.0	67
Carbon Disulfide	0.83	Not Detected	2.6	Not Detected
3-Chloropropene	0.83	Not Detected	2.6	Not Detected
Methylene Chloride	0.33	Not Detected	1.2	Not Detected
Hexane	0.83	2.6	2.9	9.0
2-Butanone (Methyl Ethyl Ketone)	0.83	2.0	2.4	5.8
Tetrahydrofuran	0.83	1.1	2.4	3.3
Cyclohexane	0.17	0.56	0.57	1.9
2,2,4-Trimethylpentane	0.83	2.8	3.9	13
Heptane	0.17	1.1	0.68	4.7
1,2-Dichloropropane	0.17	Not Detected	0.77	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.75	Not Detected
4-Methyl-2-pentanone	0.17	0.18	0.68	0.75
trans-1,3-Dichloropropene	0.17	Not Detected	0.75	Not Detected
2-Hexanone	0.83	Not Detected	3.4	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
Chlorobenzene	0.17	Not Detected	0.76	Not Detected
Styrene	0.17	Not Detected	0.71	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
Propylbenzene	0.17	0.26	0.82	1.3
4-Ethyltoluene	0.17	1.3	0.82	6.3
1,3,5-Trimethylbenzene	0.17	0.41	0.82	2.0
1,2,4-Trimethylbenzene	0.17	1.2	0.82	6.0
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.86	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.83	Not Detected	6.2	Not Detected
Hexachlorobutadiene	0.83	Not Detected	8.8	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits

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Client Sample ID: A-10

Lab ID#: 1906644-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070221**	**Date of Collection:**	**6/25/19 2:38:00 PM**
Dil. Factor:	**1.66**	**Date of Analysis:**	**7/3/19 07:17 AM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	107	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: A-10

Lab ID#: 1906644-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070221sim**	**Date of Collection:**	**6/25/19 2:38:00 PM**
Dil. Factor:	**1.66**	**Date of Analysis:**	**7/3/19 07:17 AM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.033	0.47	0.16	2.3
Freon 114	0.033	Not Detected	0.23	Not Detected
Chloromethane	0.83	Not Detected	1.7	Not Detected
Vinyl Chloride	0.017	Not Detected	0.042	Not Detected
Chloroethane	0.083	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.066	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.66	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.033	Not Detected	0.13	Not Detected
cis-1,2-Dichloroethene	0.033	0.070	0.13	0.28
Chloroform	0.033	0.17	0.16	0.83
1,1,1-Trichloroethane	0.033	0.044	0.18	0.24
Carbon Tetrachloride	0.033	0.087	0.21	0.55
Benzene	0.083	1.6	0.26	5.2
1,2-Dichloroethane	0.033	Not Detected	0.13	Not Detected
Trichloroethene	0.033	0.26	0.18	1.4
Toluene	0.083	4.0	0.31	15
1,1,2-Trichloroethane	0.033	Not Detected	0.18	Not Detected
Tetrachloroethene	0.033	1.8	0.22	12
1,2-Dibromoethane (EDB)	0.033	Not Detected	0.26	Not Detected
Ethyl Benzene	0.033	0.64	0.14	2.8
m,p-Xylene	0.066	2.2	0.29	9.4
o-Xylene	0.033	0.82	0.14	3.6
1,1,2,2-Tetrachloroethane	0.033	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.033	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: A-11

Lab ID#: 1906644-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070219**	**Date of Collection:**	**6/25/19 2:36:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**7/2/19 10:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.17	1.0	0.38	2.2
Bromomethane	0.85	Not Detected	3.3	Not Detected
Freon 11	0.17	0.23	0.96	1.3
Ethanol	0.85	75 E	1.6	140 E
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	1.7	18	4.0	44
2-Propanol	0.85	28	2.1	68
Carbon Disulfide	0.85	Not Detected	2.6	Not Detected
3-Chloropropene	0.85	Not Detected	2.7	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.85	2.6	3.0	9.2
2-Butanone (Methyl Ethyl Ketone)	0.85	1.9	2.5	5.6
Tetrahydrofuran	0.85	Not Detected	2.5	Not Detected
Cyclohexane	0.17	0.55	0.58	1.9
2,2,4-Trimethylpentane	0.85	3.0	4.0	14
Heptane	0.17	1.1	0.70	4.7
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.61	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.77	Not Detected
4-Methyl-2-pentanone	0.17	0.18	0.70	0.72
trans-1,3-Dichloropropene	0.17	Not Detected	0.77	Not Detected
2-Hexanone	0.85	Not Detected	3.5	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
Chlorobenzene	0.17	Not Detected	0.78	Not Detected
Styrene	0.17	0.17	0.72	0.73
Bromoform	0.17	Not Detected	1.8	Not Detected
Cumene	0.17	Not Detected	0.84	Not Detected
Propylbenzene	0.17	0.26	0.84	1.3
4-Ethyltoluene	0.17	1.3	0.84	6.4
1,3,5-Trimethylbenzene	0.17	0.40	0.84	2.0
1,2,4-Trimethylbenzene	0.17	1.3	0.84	6.3
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.88	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.85	Not Detected	6.3	Not Detected
Hexachlorobutadiene	0.85	Not Detected	9.1	Not Detected

E = Exceeds instrument calibration range.

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits

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Client Sample ID: A-11

Lab ID#: 1906644-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070219**	**Date of Collection:**	**6/25/19 2:36:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**7/2/19 10:09 PM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	105	70-130

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Client Sample ID: A-11

Lab ID#: 1906644-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070219sim**	**Date of Collection:**	**6/25/19 2:36:00 PM**
Dil. Factor:	**1.70**	**Date of Analysis:**	**7/2/19 10:09 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.48	0.17	2.4
Freon 114	0.034	Not Detected	0.24	Not Detected
Chloromethane	0.85	Not Detected	1.8	Not Detected
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Chloroethane	0.085	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.61	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	0.070	0.13	0.28
Chloroform	0.034	0.17	0.17	0.83
1,1,1-Trichloroethane	0.034	0.044	0.18	0.24
Carbon Tetrachloride	0.034	0.084	0.21	0.53
Benzene	0.085	1.6	0.27	5.2
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	0.26	0.18	1.4
Toluene	0.085	4.1	0.32	16
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	1.8	0.23	12
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.034	0.63	0.15	2.8
m,p-Xylene	0.068	2.1	0.30	9.3
o-Xylene	0.034	0.82	0.15	3.6
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	109	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1906644-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 01:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	1.0	Not Detected	2.4	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected	3.7	Not Detected
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	117	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1906644-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070207**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 01:31 PM**	

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
4-Bromofluorobenzene	109	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1906644-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070207sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 01:31 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	111	70-130

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Client Sample ID: CCV

Lab ID#: 1906644-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070202**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 09:15 AM**

Compound	%Recovery
1,3-Butadiene	96
Bromomethane	101
Freon 11	98
Ethanol	88
Freon 113	92
Acetone	88
2-Propanol	86
Carbon Disulfide	96
3-Chloropropene	98
Methylene Chloride	90
Hexane	93
2-Butanone (Methyl Ethyl Ketone)	90
Tetrahydrofuran	85
Cyclohexane	93
2,2,4-Trimethylpentane	92
Heptane	99
1,2-Dichloropropane	97
1,4-Dioxane	92
Bromodichloromethane	97
cis-1,3-Dichloropropene	98
4-Methyl-2-pentanone	92
trans-1,3-Dichloropropene	98
2-Hexanone	86
Dibromochloromethane	93
Chlorobenzene	95
Styrene	82
Bromoform	96
Cumene	89
Propylbenzene	85
4-Ethyltoluene	94
1,3,5-Trimethylbenzene	92
1,2,4-Trimethylbenzene	90
1,3-Dichlorobenzene	105
alpha-Chlorotoluene	85
1,2-Dichlorobenzene	73
1,2,4-Trichlorobenzene	90
Hexachlorobutadiene	103

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130

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Client Sample ID: CCV

Lab ID#: 1906644-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070202**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 09:15 AM**	

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	104	70-130
4-Bromofluorobenzene	96	70-130

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Client Sample ID: CCV

Lab ID#: 1906644-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070202sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 09:15 AM**	

Compound	**%Recovery**
Freon 12	87
Freon 114	80
Chloromethane	80
Vinyl Chloride	87
Chloroethane	116
1,1-Dichloroethene	85
trans-1,2-Dichloroethene	88
Methyl tert-butyl ether	89
1,1-Dichloroethane	90
cis-1,2-Dichloroethene	88
Chloroform	97
1,1,1-Trichloroethane	92
Carbon Tetrachloride	113
Benzene	76
1,2-Dichloroethane	92
Trichloroethene	90
Toluene	83
1,1,2-Trichloroethane	90
Tetrachloroethene	86
1,2-Dibromoethane (EDB)	91
Ethyl Benzene	84
m,p-Xylene	78
o-Xylene	79
1,1,2,2-Tetrachloroethane	81
1,4-Dichlorobenzene	85

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: LCS

Lab ID#: 1906644-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 10:04 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	97	70-130
Bromomethane	108	70-130
Freon 11	103	70-130
Ethanol	106	70-130
Freon 113	94	70-130
Acetone	93	70-130
2-Propanol	96	70-130
Carbon Disulfide	88	70-130
3-Chloropropene	94	70-130
Methylene Chloride	92	70-130
Hexane	96	70-130
2-Butanone (Methyl Ethyl Ketone)	92	70-130
Tetrahydrofuran	89	70-130
Cyclohexane	97	70-130
2,2,4-Trimethylpentane	97	70-130
Heptane	100	70-130
1,2-Dichloropropane	100	70-130
1,4-Dioxane	95	70-130
Bromodichloromethane	100	70-130
cis-1,3-Dichloropropene	95	70-130
4-Methyl-2-pentanone	98	70-130
trans-1,3-Dichloropropene	101	70-130
2-Hexanone	95	70-130
Dibromochloromethane	97	70-130
Chlorobenzene	100	70-130
Styrene	91	70-130
Bromoform	104	70-130
Cumene	96	70-130
Propylbenzene	92	70-130
4-Ethyltoluene	101	70-130
1,3,5-Trimethylbenzene	99	70-130
1,2,4-Trimethylbenzene	98	70-130
1,3-Dichlorobenzene	115	70-130
alpha-Chlorotoluene	100	70-130
1,2-Dichlorobenzene	80	70-130
1,2,4-Trichlorobenzene	94	70-130
Hexachlorobutadiene	109	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130

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Client Sample ID: LCS

Lab ID#: 1906644-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070203**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 10:04 AM**	

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	103	70-130
4-Bromofluorobenzene	97	70-130

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Client Sample ID: LCSD

Lab ID#: 1906644-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 10:53 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	98	70-130
Bromomethane	109	70-130
Freon 11	104	70-130
Ethanol	108	70-130
Freon 113	96	70-130
Acetone	94	70-130
2-Propanol	98	70-130
Carbon Disulfide	88	70-130
3-Chloropropene	97	70-130
Methylene Chloride	93	70-130
Hexane	97	70-130
2-Butanone (Methyl Ethyl Ketone)	95	70-130
Tetrahydrofuran	91	70-130
Cyclohexane	98	70-130
2,2,4-Trimethylpentane	98	70-130
Heptane	100	70-130
1,2-Dichloropropane	101	70-130
1,4-Dioxane	98	70-130
Bromodichloromethane	103	70-130
cis-1,3-Dichloropropene	95	70-130
4-Methyl-2-pentanone	97	70-130
trans-1,3-Dichloropropene	103	70-130
2-Hexanone	98	70-130
Dibromochloromethane	101	70-130
Chlorobenzene	102	70-130
Styrene	95	70-130
Bromoform	106	70-130
Cumene	98	70-130
Propylbenzene	94	70-130
4-Ethyltoluene	104	70-130
1,3,5-Trimethylbenzene	104	70-130
1,2,4-Trimethylbenzene	100	70-130
1,3-Dichlorobenzene	120	70-130
alpha-Chlorotoluene	102	70-130
1,2-Dichlorobenzene	82	70-130
1,2,4-Trichlorobenzene	102	70-130
Hexachlorobutadiene	116	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130

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Client Sample ID: LCSD

Lab ID#: 1906644-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070204**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 10:53 AM**	

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	102	70-130
4-Bromofluorobenzene	98	70-130

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Client Sample ID: LCS

Lab ID#: 1906644-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070203sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 10:04 AM**	

Compound	%Recovery	Method Limits
Freon 12	86	70-130
Freon 114	85	70-130
Chloromethane	74	70-130
Vinyl Chloride	90	70-130
Chloroethane	120	70-130
1,1-Dichloroethene	86	70-130
trans-1,2-Dichloroethene	78	70-130
Methyl tert-butyl ether	90	70-130
1,1-Dichloroethane	90	70-130
cis-1,2-Dichloroethene	98	70-130
Chloroform	97	70-130
1,1,1-Trichloroethane	92	70-130
Carbon Tetrachloride	97	70-130
Benzene	79	70-130
1,2-Dichloroethane	93	70-130
Trichloroethene	94	70-130
Toluene	87	70-130
1,1,2-Trichloroethane	93	70-130
Tetrachloroethene	91	70-130
1,2-Dibromoethane (EDB)	96	70-130
Ethyl Benzene	89	70-130
m,p-Xylene	83	70-130
o-Xylene	86	70-130
1,1,2,2-Tetrachloroethane	87	70-130
1,4-Dichlorobenzene	93	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: LCSD

Lab ID#: 1906644-05BB

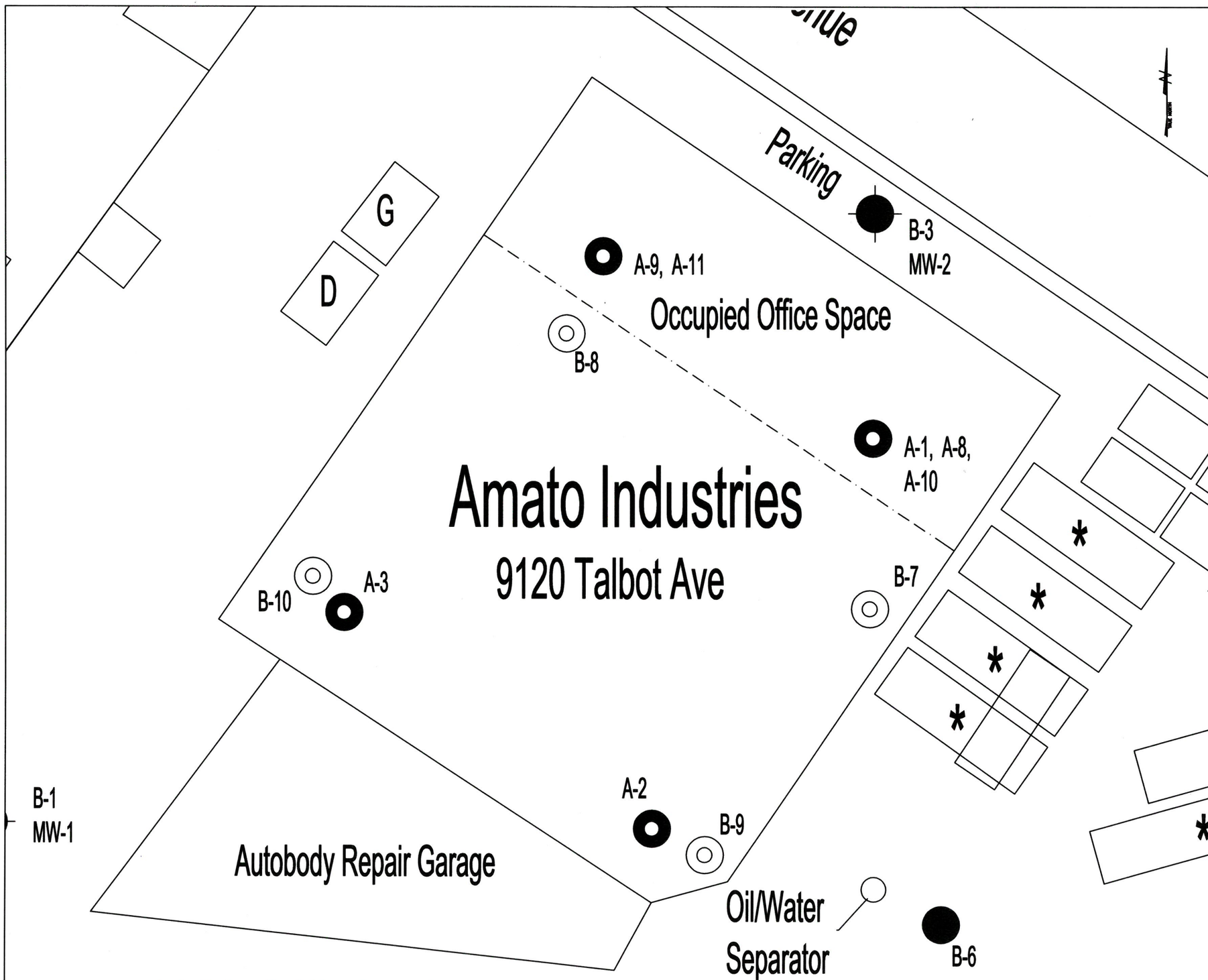
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**22070204sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 7/2/19 10:53 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	86	70-130
Freon 114	84	70-130
Chloromethane	74	70-130
Vinyl Chloride	91	70-130
Chloroethane	122	70-130
1,1-Dichloroethene	87	70-130
trans-1,2-Dichloroethene	79	70-130
Methyl tert-butyl ether	91	70-130
1,1-Dichloroethane	91	70-130
cis-1,2-Dichloroethene	100	70-130
Chloroform	99	70-130
1,1,1-Trichloroethane	93	70-130
Carbon Tetrachloride	98	70-130
Benzene	79	70-130
1,2-Dichloroethane	94	70-130
Trichloroethene	95	70-130
Toluene	88	70-130
1,1,2-Trichloroethane	94	70-130
Tetrachloroethene	92	70-130
1,2-Dibromoethane (EDB)	97	70-130
Ethyl Benzene	90	70-130
m,p-Xylene	84	70-130
o-Xylene	87	70-130
1,1,2,2-Tetrachloroethane	88	70-130
1,4-Dichlorobenzene	94	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	96	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	101	70-130



Legend

- CCRG Sub-slab vapor well dated November 28, 2018
- CCRG Ambient Air Sampling locations, see Table 1 for sample dates

Notes:

- Base Drawing is based on Figure 2 of Total Environment Concept's report dated March 8, 2004

CCRG
Clendenin Consulting & Remediation Group

Amato Industries Characterization

Indoor Air Sampling Locations

Silver Spring, Maryland

Date: 7/26/2019	Scale: Not to Scale
Drawn by: JWM	Approved by: BEC
Project #: 18006	Figure: 1

Amato Property/9120 Talbot Ave
18006 - 7/26/2019
Summary of Laboratoy Indoor Air Results

Analyte	EPA Levels Sub-Slab Soil Gas	B-7	B-8	B-9	B-10
Date of Sampling		**11/28/2018**	**11/28/2018**	**11/28/2018**	**11/28/2018**
VOC's					
Acetone	11000000	11.8	4.65	ND	6.29
Benzene	120	7.3	0.905	22.4	10.9
1,3-Butadiene	31	ND	ND	ND	ND
2-Butanone (Methyl Ethyl Ketone)	1700000	ND	ND	ND	ND
Carbon disulfide	240000	ND	ND	ND	74.7
Carbon tetrachloride	160	6.05	ND	ND	ND
Chloroform	41	10.1	1.16	281	39.7
Chloromethane	31000	ND	ND	ND	0.81
Cumene	140000	ND	ND	ND	ND
Cyclohexane	2100000	ND	ND	ND	ND
1,1-Dichloroethane	590	1.01	ND	102	52.9
1,1-Dichloroethene	70000	ND	ND	34.6	7.09
cis-1,2-Dichloroethene	NL	28.7	0.842	6600	3880
trans-1,2-Dichloroethene	NL	2.38	0.937	141	202
Ethanol	NL	51.3	ND	ND	5.04
Ethylbenzene	370	5.06	1.97	ND	4.13
4-Ethyltoluene	NL	11.3	8.72	ND	9.84
Freon 11	NL	ND	ND	ND	ND
Freon 12	NL	ND	ND	ND	ND
Trichlorofluoromethane	NL	1.23	1.2	ND	ND
Dichlorodifluoromethane	35000	1.71	1.44	ND	1.33
1,1,2-Trichlorotrifluoroethane	1700000	10.5	93.6	124	16.4
Heptane	140000	4.28	ND	ND	7.04
n-Hexane	240000	11.4	3.71	15.9	13.6
4-Methyl-2-pentanone	1000000	ND	ND	ND	ND
Methylene Chloride	34000	4.67	5.94	ND	4.28
MTBE	3600	ND	ND	ND	3.67
2-Propanol	70000	ND	ND	ND	ND
Propene	1000000	12.4	0.81	22.5	53.4
Propylbenzene	350000	ND	ND	ND	ND
Styrene	350000	1.41	ND	ND	0.892
Tetrachloroethylene	3600	5420	1690	124000	24000
Tetrahydrofuran	700000	ND	ND	ND	ND
Toluene	1700000	20.4	5.28	16.7	18.7
1,1,1-Trichloroethane	1700000	23.3	50	1060	55.9
Trichloroethylene	160	357	672	24100	4470
1,2,4-Trimethylbenzene	21000	10.6	7.98	ND	8.62
1,3,5-Trimethylbenzene	21000	3.05	2.04	ND	2.44
2,2,4-Trimethylpentane	NL	12.9	1	26	17.4
Vinyl chloride	56	ND	ND	ND	71.5
m&p-Xylene	35000	19.1	9.79	ND	14.6
o-Xylene	35000	6.73	2.98	ND	5.05

		Round #1			Round #2		Round #3	
Analyte	EPA Target Indoor Air Concentration	A-1	A-2 (warehouse)	A-3 (warehouse)	A-8	A-9	A-10	A-11
Date of Sampling		**1/22/2019**	**1/22/2019**	**1/22/2019**	**5/23/2019**	**5/23/2019**	**6/25/2019**	**6/25/2019**
VOC's								
Acetone	320000	270	490E	720E	36	26	44	44
Benzene	3.6	9.8	11	11	7.8	7.9	5.2	5.2
1,3-Butadiene	0.94	4	3.7	4.7	1.9	2.3	2.3	2.3
2-Butanone (Methyl Ethyl Ketone)	52000	ND	ND	4.8	ND	ND	5.8	5.6
Carbon disulfide	7300	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	4.7	0.5	0.6	0.64	0.88	0.81	0.55	0.53
Chloroform	1.2	1.3	1.7	1.8	2.6	2.6	0.83	0.83
Chloromethane	940	ND	ND	ND	ND	ND	ND	ND
Cumene	4200	1.8	2	2.5	ND	ND	ND	ND
Cyclohexane	63000	6.9	7.2	7.8	5	2.6	1.9	1.9
1,1-Dichloroethane	18	0.46	0.62	0.7	ND	ND	ND	ND
1,1-Dichloroethene	2100	0.2	0.27	0.28	ND	ND	ND	ND
cis-1,2-Dichloroethene	NL	13	16	18	1.7	1.3	0.28	0.28
trans-1,2-Dichloroethene	NL	ND	ND	ND	ND	ND	ND	ND
Ethanol	NL	810E	400E	330E	360E	240	140E	140E
Ethylbenzene	11	11	16	18	7	7	2.8	2.8
4-Ethyltoluene	NL	14	15	16	19	20	6.3	6.4
Freon 11	NL	ND	ND	ND	ND	ND	1.2	1.3
Freon 12	NL	2.4	2.3	2.3	2.4	2.4	2.3	2.4
Trichlorofluoromethane	NL	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	1000	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	52000	ND	ND	ND	ND	ND	ND	ND
Heptane	4200	14	15	13	10	8.5	4.7	4.7
n-Hexane	7300	32	36	35	19	18	9	9.2
4-Methyl-2-pentanone	31000	17	39	59	1.6	2.6	0.75	0.72
Methylene Chloride	1000	3.2	ND	ND	3.3	2.6	ND	ND
MTBE	110	ND	ND	ND	ND	ND	ND	ND
2-Propanol	NL	65 J0	34 J0	31 J0	6.2	5.1	67	68
Propene	2100	ND	ND	ND	ND	ND	ND	ND
Propylbenzene	10000	8.4	9	10	3.2	3.2	1.3	1.3
Styrene	10000	ND	ND	ND	ND	1.5 J	ND	0.73
Tetrachloroethylene	110	230	260	280	82	68	12	12
Tetrahydrofuran	21000	ND	ND	ND	ND	ND	3.3	ND
Toluene	52000	31	39	40	34	34	15	16
1,1,1-Trichloroethane	52000	3.2	4.3	4.7	1.1	1.1	0.24	0.24
Trichloroethylene	4.8	20	25	28	6.6	6	1.4	1.4
1,2,4-Trimethylbenzene	630	38	45	50	21	20	6	6.3
1,3,5-Trimethylbenzene	630	12	14	15	5.9	6.5	2	2
2,2,4-Trimethylpentane	NL	38	42	42	24	24	13	14
Vinyl chloride	1.7	0.15	0.081	0.084	ND	ND	ND	ND
m&p-Xylene	1000	37	54	62	27	26	9.4	9.3
o-Xylene	1000	14	19	21	10	10	3.6	3.6

Location 1 =

Location 2 =

Notes:
1) µg/m³
2) ND - Non Detect
3) Only analytes that have one or more detections are shown
4) EPA screening levels are highlighted if an analyte tested exceeds those levels
5) EPA Screening Levels are from the EPA's Resident Vapor Intrusion Screening Levels - May 2018
6) Numbers listed in red pertain to Target Sub-Slab and Near-Source Soil Gas Concentrations which exceed the EPA's Resident Vapor Intrusion Screening Levels
7) Numbers listed in orange pertain to Target Indoor Air Concentrations which exceed the EPA's Resident Vapor Intrusion Screening Levels
8) NL - Not-Listed
9) See Figure 1 for sampling locations
10) E - Exceeds instrument calibration range
11) J - Estimated value

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8/19/2019
Mr. Winthrop McCormack
Clendenin Consulting & Remediation Group
116-C2 Edwards Ferry Road

Leesburg VA 20176

Project Name: Amato Industries/9120 Talbot Ave
Project #: 18006
Workorder #: 1908123

Dear Mr. Winthrop McCormack

The following report includes the data for the above referenced project for sample(s) received on 8/6/2019 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Eurofins Air Toxics Inc. for your air analysis needs. Eurofins Air Toxics Inc. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Ausha Scott at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Ausha Scott

Project Manager

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WORK ORDER #: 1908123

Work Order Summary

CLIENT:	Mr. Winthrop McCormack Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176	**BILL TO:**	Ms. Samantha Kirk Clendenin Consulting & Remediation Group 116-C2 Edwards Ferry Road Leesburg, VA 20176
PHONE:	703-771-8816	**P.O. #**	
FAX:	703-771-8825	**PROJECT #**	18006 Amato Industries/9120 Talbot Ave
DATE RECEIVED:	08/06/2019	**CONTACT:**	Ausha Scott
DATE COMPLETED:	08/19/2019		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	A-12	Modified TO-15	7.5 "Hg	5 psi
01B	A-12	Modified TO-15	7.5 "Hg	5 psi
02A	A-13	Modified TO-15	6.0 "Hg	5 psi
02B	A-13	Modified TO-15	6.0 "Hg	5 psi
03A	Lab Blank	Modified TO-15	NA	NA
03B	Lab Blank	Modified TO-15	NA	NA
04A	CCV	Modified TO-15	NA	NA
04B	CCV	Modified TO-15	NA	NA
05A	LCS	Modified TO-15	NA	NA
05AA	LCSD	Modified TO-15	NA	NA
05B	LCS	Modified TO-15	NA	NA
05BB	LCSD	Modified TO-15	NA	NA

CERTIFIED BY: Heidi Hayes

Technical Director

DATE: 08/19/19

Certification numbers: AZ Licensure AZ0775, FL NELAP – E87680, LA NELAP – 02089, NH NELAP - 209218, NJ NELAP - CA016, NY NELAP - 11291, TX NELAP - T104704434-18-13, UT NELAP – CA009332019-11, VA NELAP - 460197, WA NELAP - C935
Name of Accreditation Body: NELAP/ORELAP (Oregon Environmental Laboratory Accreditation Program)
Accreditation number: CA300005-011, Effective date: 10/18/2018, Expiration date: 10/17/2019.
Eurofins Air Toxics Inc.. certifies that the test results contained in this report meet all requirements of the NELAC standards

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LABORATORY NARRATIVE
Modified TO-15 Full Scan/SIM
Clendenin Consulting & Remediation Group
Workorder# 1908123

Two 6 Liter Summa Canister (100% SIM Ambient) samples were received on August 06, 2019. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan and SIM acquisition modes. The method involves concentrating up to 1.0 liters of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
ICAL %RSD acceptance criteria	</=30% RSD with 2 compounds allowed out to < 40% RSD	For Full Scan: 30% RSD with 4 compounds allowed out to < 40% RSD For SIM: Project specific; default criteria is </=30% RSD with 10% of compounds allowed out to < 40% RSD
Daily Calibration	+- 30% Difference	For Full Scan: </= 30% Difference with four allowed out up to </=40%.; flag and narrate outliers For SIM: Project specific; default criteria is </= 30% Difference with 10% of compounds allowed out up to </=40%.; flag and narrate outliers
Blank and standards	Zero air	Nitrogen
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

All Quality Control Limit exceedances and affected sample results are noted by flags. Each flag is defined at the bottom of this Case Narrative and on each Sample Result Summary page. Target compound non-detects in the samples that are associated with high bias in QC analyses have not been flagged.

Definition of Data Qualifying Flags

Nine qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

CN - See case narrative explanation

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-12

Lab ID#: 1908123-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.18	0.46	0.40	1.0
Freon 11	0.18	0.20	1.0	1.1
Ethanol	0.90	58	1.7	110
Acetone	1.8	33 J0	4.2	78 J0
2-Propanol	0.90	4.2	2.2	10
Hexane	0.90	2.9	3.2	10
Cyclohexane	0.18	0.58	0.62	2.0
2,2,4-Trimethylpentane	0.90	2.9	4.2	14
Heptane	0.18	1.3	0.73	5.4
4-Methyl-2-pentanone	0.18	0.20	0.73	0.80
Propylbenzene	0.18	0.19	0.88	0.94
4-Ethyltoluene	0.18	0.30	0.88	1.5
1,3,5-Trimethylbenzene	0.18	0.28	0.88	1.4
1,2,4-Trimethylbenzene	0.18	0.89	0.88	4.4

Client Sample ID: A-12

Lab ID#: 1908123-01B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.036	0.38	0.18	1.9
cis-1,2-Dichloroethene	0.036	0.092	0.14	0.36
Chloroform	0.036	0.21	0.17	1.0
Carbon Tetrachloride	0.036	0.078	0.22	0.49
Benzene	0.090	1.4	0.28	4.6
Trichloroethene	0.036	0.20	0.19	1.1
Toluene	0.090	3.7	0.34	14
Tetrachloroethene	0.036	4.3	0.24	29
Ethyl Benzene	0.036	0.56	0.16	2.4
m,p-Xylene	0.072	2.0	0.31	8.9
o-Xylene	0.036	0.76	0.16	3.3

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Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

Client Sample ID: A-13

Lab ID#: 1908123-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.17	0.46	0.37	1.0
Freon 11	0.17	0.20	0.94	1.1
Ethanol	0.84	44	1.6	84
Acetone	1.7	37 J0E	4.0	88 J0E
2-Propanol	0.84	2.5	2.1	6.2
Hexane	0.84	2.7	3.0	9.7
2-Butanone (Methyl Ethyl Ketone)	0.84	1.0	2.5	3.1
Cyclohexane	0.17	0.56	0.58	1.9
2,2,4-Trimethylpentane	0.84	3.0	3.9	14
Heptane	0.17	1.1	0.69	4.6
4-Methyl-2-pentanone	0.17	0.21	0.69	0.87
Propylbenzene	0.17	0.20	0.82	1.0
4-Ethyltoluene	0.17	0.30	0.82	1.5
1,3,5-Trimethylbenzene	0.17	0.26	0.82	1.3
1,2,4-Trimethylbenzene	0.17	0.93	0.82	4.6

Client Sample ID: A-13

Lab ID#: 1908123-02B

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
cis-1,2-Dichloroethene	0.034	0.091	0.13	0.36
Chloroform	0.034	0.21	0.16	1.0
Carbon Tetrachloride	0.034	0.080	0.21	0.50
Benzene	0.084	1.3	0.27	4.2
Trichloroethene	0.034	0.24	0.18	1.3
Toluene	0.084	3.5	0.32	13
Tetrachloroethene	0.034	4.4	0.23	30
Ethyl Benzene	0.034	0.55	0.14	2.4
m,p-Xylene	0.067	2.0	0.29	8.8
o-Xylene	0.034	0.76	0.14	3.3

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Client Sample ID: A-12

Lab ID#: 1908123-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080813**	**Date of Collection:**	**8/2/19 1:53:00 PM**
Dil. Factor:	**1.79**	**Date of Analysis:**	**8/8/19 05:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.18	0.46	0.40	1.0
Bromomethane	0.90	Not Detected	3.5	Not Detected
Freon 11	0.18	0.20	1.0	1.1
Ethanol	0.90	58	1.7	110
Freon 113	0.18	Not Detected	1.4	Not Detected
Acetone	1.8	33 J0	4.2	78 J0
2-Propanol	0.90	4.2	2.2	10
Carbon Disulfide	0.90	Not Detected	2.8	Not Detected
3-Chloropropene	0.90	Not Detected	2.8	Not Detected
Methylene Chloride	0.36	Not Detected	1.2	Not Detected
Hexane	0.90	2.9	3.2	10
2-Butanone (Methyl Ethyl Ketone)	0.90	Not Detected	2.6	Not Detected
Tetrahydrofuran	0.90	Not Detected	2.6	Not Detected
Cyclohexane	0.18	0.58	0.62	2.0
2,2,4-Trimethylpentane	0.90	2.9	4.2	14
Heptane	0.18	1.3	0.73	5.4
1,2-Dichloropropane	0.18	Not Detected	0.83	Not Detected
1,4-Dioxane	0.18	Not Detected	0.64	Not Detected
Bromodichloromethane	0.18	Not Detected	1.2	Not Detected
cis-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
4-Methyl-2-pentanone	0.18	0.20	0.73	0.80
trans-1,3-Dichloropropene	0.18	Not Detected	0.81	Not Detected
2-Hexanone	0.90	Not Detected	3.7	Not Detected
Dibromochloromethane	0.18	Not Detected	1.5	Not Detected
Chlorobenzene	0.18	Not Detected	0.82	Not Detected
Styrene	0.18	Not Detected	0.76	Not Detected
Bromoform	0.18	Not Detected	1.8	Not Detected
Cumene	0.18	Not Detected	0.88	Not Detected
Propylbenzene	0.18	0.19	0.88	0.94
4-Ethyltoluene	0.18	0.30	0.88	1.5
1,3,5-Trimethylbenzene	0.18	0.28	0.88	1.4
1,2,4-Trimethylbenzene	0.18	0.89	0.88	4.4
1,3-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
alpha-Chlorotoluene	0.18	Not Detected	0.93	Not Detected
1,2-Dichlorobenzene	0.18	Not Detected	1.1	Not Detected
1,2,4-Trichlorobenzene	0.90	Not Detected UJ	6.6	Not Detected UJ
Hexachlorobutadiene	0.90	Not Detected	9.5	Not Detected

J0 = Estimated value due to bias in the CCV.
UJ = Analyte associated with low bias in the CCV.
Container Type: 6 Liter Summa Canister (100% SIM Ambient)

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Client Sample ID: A-12

Lab ID#: 1908123-01A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080813**	**Date of Collection:**	**8/2/19 1:53:00 PM**
Dil. Factor:	**1.79**	**Date of Analysis:**	**8/8/19 05:26 PM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	87	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	104	70-130

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Client Sample ID: A-12

Lab ID#: 1908123-01B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080813sim**	**Date of Collection:**	**8/2/19 1:53:00 PM**
Dil. Factor:	**1.79**	**Date of Analysis:**	**8/8/19 05:26 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.036	0.38	0.18	1.9
Freon 114	0.036	Not Detected	0.25	Not Detected
Chloromethane	0.90	Not Detected	1.8	Not Detected
Vinyl Chloride	0.018	Not Detected	0.046	Not Detected
Chloroethane	0.090	Not Detected	0.24	Not Detected
1,1-Dichloroethene	0.018	Not Detected	0.071	Not Detected
trans-1,2-Dichloroethene	0.18	Not Detected	0.71	Not Detected
Methyl tert-butyl ether	0.18	Not Detected	0.64	Not Detected
1,1-Dichloroethane	0.036	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.036	0.092	0.14	0.36
Chloroform	0.036	0.21	0.17	1.0
1,1,1-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Carbon Tetrachloride	0.036	0.078	0.22	0.49
Benzene	0.090	1.4	0.28	4.6
1,2-Dichloroethane	0.036	Not Detected	0.14	Not Detected
Trichloroethene	0.036	0.20	0.19	1.1
Toluene	0.090	3.7	0.34	14
1,1,2-Trichloroethane	0.036	Not Detected	0.20	Not Detected
Tetrachloroethene	0.036	4.3	0.24	29
1,2-Dibromoethane (EDB)	0.036	Not Detected	0.28	Not Detected
Ethyl Benzene	0.036	0.56	0.16	2.4
m,p-Xylene	0.072	2.0	0.31	8.9
o-Xylene	0.036	0.76	0.16	3.3
1,1,2,2-Tetrachloroethane	0.036	Not Detected	0.24	Not Detected
1,4-Dichlorobenzene	0.036	Not Detected	0.22	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: A-13

Lab ID#: 1908123-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080814**	**Date of Collection:**	**8/2/19 2:51:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**8/8/19 06:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.17	0.46	0.37	1.0
Bromomethane	0.84	Not Detected	3.3	Not Detected
Freon 11	0.17	0.20	0.94	1.1
Ethanol	0.84	44	1.6	84
Freon 113	0.17	Not Detected	1.3	Not Detected
Acetone	1.7	37 J0E	4.0	88 J0E
2-Propanol	0.84	2.5	2.1	6.2
Carbon Disulfide	0.84	Not Detected	2.6	Not Detected
3-Chloropropene	0.84	Not Detected	2.6	Not Detected
Methylene Chloride	0.34	Not Detected	1.2	Not Detected
Hexane	0.84	2.7	3.0	9.7
2-Butanone (Methyl Ethyl Ketone)	0.84	1.0	2.5	3.1
Tetrahydrofuran	0.84	Not Detected	2.5	Not Detected
Cyclohexane	0.17	0.56	0.58	1.9
2,2,4-Trimethylpentane	0.84	3.0	3.9	14
Heptane	0.17	1.1	0.69	4.6
1,2-Dichloropropane	0.17	Not Detected	0.78	Not Detected
1,4-Dioxane	0.17	Not Detected	0.60	Not Detected
Bromodichloromethane	0.17	Not Detected	1.1	Not Detected
cis-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
4-Methyl-2-pentanone	0.17	0.21	0.69	0.87
trans-1,3-Dichloropropene	0.17	Not Detected	0.76	Not Detected
2-Hexanone	0.84	Not Detected	3.4	Not Detected
Dibromochloromethane	0.17	Not Detected	1.4	Not Detected
Chlorobenzene	0.17	Not Detected	0.77	Not Detected
Styrene	0.17	Not Detected	0.72	Not Detected
Bromoform	0.17	Not Detected	1.7	Not Detected
Cumene	0.17	Not Detected	0.82	Not Detected
Propylbenzene	0.17	0.20	0.82	1.0
4-Ethyltoluene	0.17	0.30	0.82	1.5
1,3,5-Trimethylbenzene	0.17	0.26	0.82	1.3
1,2,4-Trimethylbenzene	0.17	0.93	0.82	4.6
1,3-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
alpha-Chlorotoluene	0.17	Not Detected	0.87	Not Detected
1,2-Dichlorobenzene	0.17	Not Detected	1.0	Not Detected
1,2,4-Trichlorobenzene	0.84	Not Detected UJ	6.2	Not Detected UJ
Hexachlorobutadiene	0.84	Not Detected	9.0	Not Detected

J0 = Estimated value due to bias in the CCV.
E = Exceeds instrument calibration range.
UJ = Analyte associated with low bias in the CCV.
Container Type: 6 Liter Summa Canister (100% SIM Ambient)

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Client Sample ID: A-13

Lab ID#: 1908123-02A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080814**	**Date of Collection:**	**8/2/19 2:51:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**8/8/19 06:04 PM**

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	101	70-130

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Client Sample ID: A-13

Lab ID#: 1908123-02B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080814sim**	**Date of Collection:**	**8/2/19 2:51:00 PM**
Dil. Factor:	**1.68**	**Date of Analysis:**	**8/8/19 06:04 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.034	0.38	0.17	1.9
Freon 114	0.034	Not Detected	0.23	Not Detected
Chloromethane	0.84	Not Detected	1.7	Not Detected
Vinyl Chloride	0.017	Not Detected	0.043	Not Detected
Chloroethane	0.084	Not Detected	0.22	Not Detected
1,1-Dichloroethene	0.017	Not Detected	0.067	Not Detected
trans-1,2-Dichloroethene	0.17	Not Detected	0.67	Not Detected
Methyl tert-butyl ether	0.17	Not Detected	0.60	Not Detected
1,1-Dichloroethane	0.034	Not Detected	0.14	Not Detected
cis-1,2-Dichloroethene	0.034	0.091	0.13	0.36
Chloroform	0.034	0.21	0.16	1.0
1,1,1-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Carbon Tetrachloride	0.034	0.080	0.21	0.50
Benzene	0.084	1.3	0.27	4.2
1,2-Dichloroethane	0.034	Not Detected	0.14	Not Detected
Trichloroethene	0.034	0.24	0.18	1.3
Toluene	0.084	3.5	0.32	13
1,1,2-Trichloroethane	0.034	Not Detected	0.18	Not Detected
Tetrachloroethene	0.034	4.4	0.23	30
1,2-Dibromoethane (EDB)	0.034	Not Detected	0.26	Not Detected
Ethyl Benzene	0.034	0.55	0.14	2.4
m,p-Xylene	0.067	2.0	0.29	8.8
o-Xylene	0.034	0.76	0.14	3.3
1,1,2,2-Tetrachloroethane	0.034	Not Detected	0.23	Not Detected
1,4-Dichlorobenzene	0.034	Not Detected	0.20	Not Detected

Container Type: 6 Liter Summa Canister (100% SIM Ambient)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	91	70-130
Toluene-d8	94	70-130
4-Bromofluorobenzene	102	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1908123-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 12:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
1,3-Butadiene	0.10	Not Detected	0.22	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Freon 11	0.10	Not Detected	0.56	Not Detected
Ethanol	0.50	Not Detected	0.94	Not Detected
Freon 113	0.10	Not Detected	0.77	Not Detected
Acetone	1.0	Not Detected	2.4	Not Detected
2-Propanol	0.50	Not Detected	1.2	Not Detected
Carbon Disulfide	0.50	Not Detected	1.6	Not Detected
3-Chloropropene	0.50	Not Detected	1.6	Not Detected
Methylene Chloride	0.20	Not Detected	0.69	Not Detected
Hexane	0.50	Not Detected	1.8	Not Detected
2-Butanone (Methyl Ethyl Ketone)	0.50	Not Detected	1.5	Not Detected
Tetrahydrofuran	0.50	Not Detected	1.5	Not Detected
Cyclohexane	0.10	Not Detected	0.34	Not Detected
2,2,4-Trimethylpentane	0.50	Not Detected	2.3	Not Detected
Heptane	0.10	Not Detected	0.41	Not Detected
1,2-Dichloropropane	0.10	Not Detected	0.46	Not Detected
1,4-Dioxane	0.10	Not Detected	0.36	Not Detected
Bromodichloromethane	0.10	Not Detected	0.67	Not Detected
cis-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
4-Methyl-2-pentanone	0.10	Not Detected	0.41	Not Detected
trans-1,3-Dichloropropene	0.10	Not Detected	0.45	Not Detected
2-Hexanone	0.50	Not Detected	2.0	Not Detected
Dibromochloromethane	0.10	Not Detected	0.85	Not Detected
Chlorobenzene	0.10	Not Detected	0.46	Not Detected
Styrene	0.10	Not Detected	0.42	Not Detected
Bromoform	0.10	Not Detected	1.0	Not Detected
Cumene	0.10	Not Detected	0.49	Not Detected
Propylbenzene	0.10	Not Detected	0.49	Not Detected
4-Ethyltoluene	0.10	Not Detected	0.49	Not Detected
1,3,5-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,2,4-Trimethylbenzene	0.10	Not Detected	0.49	Not Detected
1,3-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
alpha-Chlorotoluene	0.10	Not Detected	0.52	Not Detected
1,2-Dichlorobenzene	0.10	Not Detected	0.60	Not Detected
1,2,4-Trichlorobenzene	0.50	Not Detected UJ	3.7	Not Detected UJ
Hexachlorobutadiene	0.50	Not Detected	5.3	Not Detected

UJ = Analyte associated with low bias in the CCV.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

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Client Sample ID: Lab Blank

Lab ID#: 1908123-03A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080806**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 12:04 PM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: Lab Blank

Lab ID#: 1908123-03B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080806sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 12:04 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Freon 12	0.020	Not Detected	0.099	Not Detected
Freon 114	0.020	Not Detected	0.14	Not Detected
Chloromethane	0.50	Not Detected	1.0	Not Detected
Vinyl Chloride	0.010	Not Detected	0.026	Not Detected
Chloroethane	0.050	Not Detected	0.13	Not Detected
1,1-Dichloroethene	0.010	Not Detected	0.040	Not Detected
trans-1,2-Dichloroethene	0.10	Not Detected	0.40	Not Detected
Methyl tert-butyl ether	0.10	Not Detected	0.36	Not Detected
1,1-Dichloroethane	0.020	Not Detected	0.081	Not Detected
cis-1,2-Dichloroethene	0.020	Not Detected	0.079	Not Detected
Chloroform	0.020	Not Detected	0.098	Not Detected
1,1,1-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Carbon Tetrachloride	0.020	Not Detected	0.12	Not Detected
Benzene	0.050	Not Detected	0.16	Not Detected
1,2-Dichloroethane	0.020	Not Detected	0.081	Not Detected
Trichloroethene	0.020	Not Detected	0.11	Not Detected
Toluene	0.050	Not Detected	0.19	Not Detected
1,1,2-Trichloroethane	0.020	Not Detected	0.11	Not Detected
Tetrachloroethene	0.020	Not Detected	0.14	Not Detected
1,2-Dibromoethane (EDB)	0.020	Not Detected	0.15	Not Detected
Ethyl Benzene	0.020	Not Detected	0.087	Not Detected
m,p-Xylene	0.040	Not Detected	0.17	Not Detected
o-Xylene	0.020	Not Detected	0.087	Not Detected
1,1,2,2-Tetrachloroethane	0.020	Not Detected	0.14	Not Detected
1,4-Dichlorobenzene	0.020	Not Detected	0.12	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	90	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

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Client Sample ID: CCV

Lab ID#: 1908123-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080802**	**Date of Collection: NA**
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 08:45 AM**

Compound	%Recovery
1,3-Butadiene	80
Bromomethane	89
Freon 11	88
Ethanol	74
Freon 113	90
Acetone	131 Q
2-Propanol	73
Carbon Disulfide	84
3-Chloropropene	90
Methylene Chloride	82
Hexane	82
2-Butanone (Methyl Ethyl Ketone)	82
Tetrahydrofuran	90
Cyclohexane	91
2,2,4-Trimethylpentane	85
Heptane	88
1,2-Dichloropropane	82
1,4-Dioxane	102
Bromodichloromethane	85
cis-1,3-Dichloropropene	77
4-Methyl-2-pentanone	78
trans-1,3-Dichloropropene	85
2-Hexanone	80
Dibromochloromethane	92
Chlorobenzene	86
Styrene	95
Bromoform	94
Cumene	89
Propylbenzene	90
4-Ethyltoluene	100
1,3,5-Trimethylbenzene	104
1,2,4-Trimethylbenzene	92
1,3-Dichlorobenzene	84
alpha-Chlorotoluene	71
1,2-Dichlorobenzene	83
1,2,4-Trichlorobenzene	63 Q
Hexachlorobutadiene	71

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits

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Client Sample ID: CCV

Lab ID#: 1908123-04A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 08:45 AM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	113	70-130

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Client Sample ID: CCV

Lab ID#: 1908123-04B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080802sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 08:45 AM**	

Compound	**%Recovery**
Freon 12	81
Freon 114	89
Chloromethane	76
Vinyl Chloride	79
Chloroethane	80
1,1-Dichloroethene	82
trans-1,2-Dichloroethene	83
Methyl tert-butyl ether	89
1,1-Dichloroethane	80
cis-1,2-Dichloroethene	96
Chloroform	82
1,1,1-Trichloroethane	83
Carbon Tetrachloride	100
Benzene	81
1,2-Dichloroethane	80
Trichloroethene	88
Toluene	87
1,1,2-Trichloroethane	88
Tetrachloroethene	96
1,2-Dibromoethane (EDB)	92
Ethyl Benzene	100
m,p-Xylene	98
o-Xylene	98
1,1,2,2-Tetrachloroethane	87
1,4-Dichlorobenzene	84

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	113	70-130

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Client Sample ID: LCS

Lab ID#: 1908123-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 10:06 AM**	

Compound	**%Recovery**	**Method Limits**
1,3-Butadiene	76	70-130
Bromomethane	95	70-130
Freon 11	90	70-130
Ethanol	81	70-130
Freon 113	90	70-130
Acetone	114	70-130
2-Propanol	67 Q	70-130
Carbon Disulfide	75	70-130
3-Chloropropene	88	70-130
Methylene Chloride	82	70-130
Hexane	83	70-130
2-Butanone (Methyl Ethyl Ketone)	79	70-130
Tetrahydrofuran	70	70-130
Cyclohexane	93	70-130
2,2,4-Trimethylpentane	80	70-130
Heptane	89	70-130
1,2-Dichloropropane	84	70-130
1,4-Dioxane	103	70-130
Bromodichloromethane	90	70-130
cis-1,3-Dichloropropene	78	70-130
4-Methyl-2-pentanone	83	70-130
trans-1,3-Dichloropropene	89	70-130
2-Hexanone	89	70-130
Dibromochloromethane	94	70-130
Chlorobenzene	93	70-130
Styrene	104	70-130
Bromoform	104	70-130
Cumene	94	70-130
Propylbenzene	96	70-130
4-Ethyltoluene	106	70-130
1,3,5-Trimethylbenzene	112	70-130
1,2,4-Trimethylbenzene	106	70-130
1,3-Dichlorobenzene	100	70-130
alpha-Chlorotoluene	98	70-130
1,2-Dichlorobenzene	106	70-130
1,2,4-Trichlorobenzene	108	70-130
Hexachlorobutadiene	114	70-130

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**

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Client Sample ID: LCS

Lab ID#: 1908123-05A

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 10:06 AM**	

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 1908123-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 10:44 AM**	

Compound	%Recovery	Method Limits
1,3-Butadiene	78	70-130
Bromomethane	93	70-130
Freon 11	91	70-130
Ethanol	87	70-130
Freon 113	91	70-130
Acetone	117	70-130
2-Propanol	70	70-130
Carbon Disulfide	76	70-130
3-Chloropropene	92	70-130
Methylene Chloride	85	70-130
Hexane	83	70-130
2-Butanone (Methyl Ethyl Ketone)	82	70-130
Tetrahydrofuran	72	70-130
Cyclohexane	94	70-130
2,2,4-Trimethylpentane	80	70-130
Heptane	87	70-130
1,2-Dichloropropane	83	70-130
1,4-Dioxane	104	70-130
Bromodichloromethane	90	70-130
cis-1,3-Dichloropropene	79	70-130
4-Methyl-2-pentanone	83	70-130
trans-1,3-Dichloropropene	90	70-130
2-Hexanone	88	70-130
Dibromochloromethane	94	70-130
Chlorobenzene	93	70-130
Styrene	100	70-130
Bromoform	103	70-130
Cumene	92	70-130
Propylbenzene	98	70-130
4-Ethyltoluene	111	70-130
1,3,5-Trimethylbenzene	117	70-130
1,2,4-Trimethylbenzene	112	70-130
1,3-Dichlorobenzene	99	70-130
alpha-Chlorotoluene	96	70-130
1,2-Dichlorobenzene	103	70-130
1,2,4-Trichlorobenzene	111	70-130
Hexachlorobutadiene	116	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130

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Client Sample ID: LCSD

Lab ID#: 1908123-05AA

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080804**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 10:44 AM**	

Surrogates	**%Recovery**	**Method Limits**
Toluene-d8	98	70-130
4-Bromofluorobenzene	107	70-130

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Client Sample ID: LCS

Lab ID#: 1908123-05B

MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080803sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 10:06 AM**	

Compound	%Recovery	Method Limits
Freon 12	83	70-130
Freon 114	93	70-130
Chloromethane	72	70-130
Vinyl Chloride	79	70-130
Chloroethane	88	70-130
1,1-Dichloroethene	85	70-130
trans-1,2-Dichloroethene	77	70-130
Methyl tert-butyl ether	86	70-130
1,1-Dichloroethane	81	70-130
cis-1,2-Dichloroethene	100	70-130
Chloroform	82	70-130
1,1,1-Trichloroethane	85	70-130
Carbon Tetrachloride	94	70-130
Benzene	80	70-130
1,2-Dichloroethane	78	70-130
Trichloroethene	94	70-130
Toluene	89	70-130
1,1,2-Trichloroethane	90	70-130
Tetrachloroethene	100	70-130
1,2-Dibromoethane (EDB)	94	70-130
Ethyl Benzene	103	70-130
m,p-Xylene	101	70-130
o-Xylene	104	70-130
1,1,2,2-Tetrachloroethane	88	70-130
1,4-Dichlorobenzene	97	70-130

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	106	70-130

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Client Sample ID: LCSD

Lab ID#: 1908123-05BB

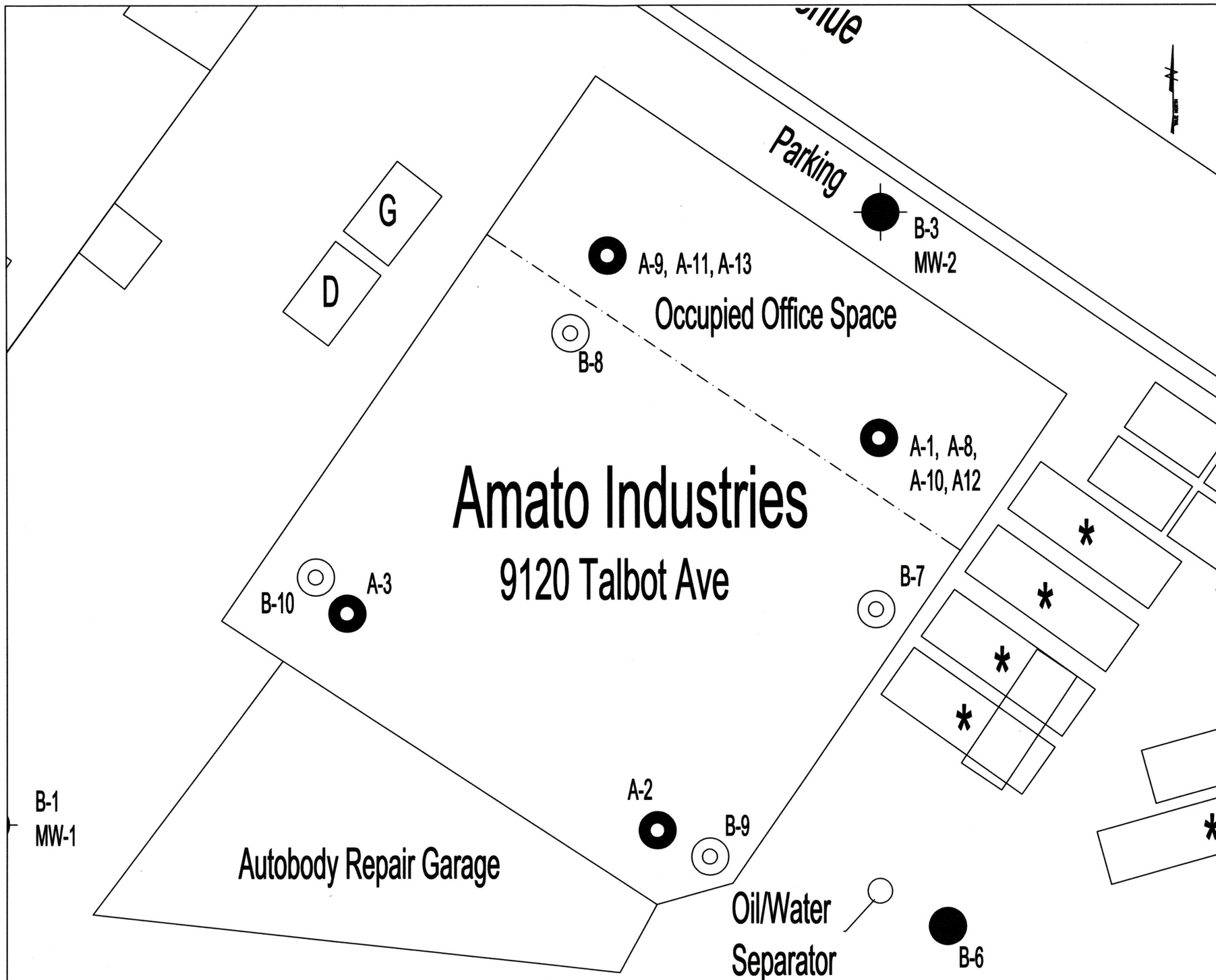
MODIFIED EPA METHOD TO-15 GC/MS SIM/FULL SCAN

File Name:	**v080804sim**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 8/8/19 10:44 AM**	

Compound	**%Recovery**	**Method Limits**
Freon 12	81	70-130
Freon 114	93	70-130
Chloromethane	73	70-130
Vinyl Chloride	78	70-130
Chloroethane	87	70-130
1,1-Dichloroethene	86	70-130
trans-1,2-Dichloroethene	78	70-130
Methyl tert-butyl ether	88	70-130
1,1-Dichloroethane	81	70-130
cis-1,2-Dichloroethene	100	70-130
Chloroform	82	70-130
1,1,1-Trichloroethane	85	70-130
Carbon Tetrachloride	94	70-130
Benzene	80	70-130
1,2-Dichloroethane	79	70-130
Trichloroethene	94	70-130
Toluene	88	70-130
1,1,2-Trichloroethane	91	70-130
Tetrachloroethene	99	70-130
1,2-Dibromoethane (EDB)	95	70-130
Ethyl Benzene	102	70-130
m,p-Xylene	99	70-130
o-Xylene	102	70-130
1,1,2,2-Tetrachloroethane	92	70-130
1,4-Dichlorobenzene	97	70-130

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	86	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	108	70-130



Legend

- CCRG Sub-slab vapor well dated November 28, 2018
- CCRG Ambient Air Sampling locations, see Table 1 for sample dates

Notes:

- Base Drawing is based on Figure 2 of Total Environment Concept's report dated March 8, 2004

CCRG
Clendenin Consulting & Remediation Group

Amato Industries Characterization

Indoor Air Sampling Locations

Silver Spring, Maryland

Date: 8/29/2019	Scale: Not to Scale
Drawn by: JWM	Approved by: BEC
Project #: 18006	Figure: 1

Amato Property/9120 Talbot Ave
18006 - 8/29/2019
Summary of Laboratoy Indoor Air Results

Analyte	EPA Levels Sub-Slab Soil Gas	B-7	B-8	B-9	B-10
Date of Sampling		11/28/2018	11/28/2018	11/28/2018	11/28/2018
VOC's					
Acetone	11000000	11.8	4.65	ND	6.29
Benzene	120	7.3	0.905	22.4	10.9
1,3-Butadiene	31	ND	ND	ND	ND
2-Butanone (Methyl Ethyl Ketone)	1700000	ND	ND	ND	ND
Carbon disulfide	240000	ND	ND	ND	74.7
Carbon tetrachloride	160	6.05	ND	ND	ND
Chloroform	41	10.1	1.16	281	39.7
Chloromethane	31000	ND	ND	ND	0.81
Cumene	140000	ND	ND	ND	ND
Cyclohexane	2100000	ND	ND	ND	ND
1,1-Dichloroethane	590	1.01	ND	102	52.9
1,1-Dichloroethene	70000	ND	ND	34.6	7.09
cis-1,2-Dichloroethene	NL	28.7	0.842	6600	3880
trans-1,2-Dichloroethene	NL	2.38	0.937	141	202
Ethanol	NL	51.3	ND	ND	5.04
Ethylbenzene	370	5.06	1.97	ND	4.13
4-Ethyltoluene	NL	11.3	8.72	ND	9.84
Freon 11	NL	ND	ND	ND	ND
Freon 12	NL	ND	ND	ND	ND
Trichlorofluoromethane	NL	1.23	1.2	ND	ND
Dichlorodifluoromethane	35000	1.71	1.44	ND	1.33
1,1,2-Trichlorotrifluoroethane	1700000	10.5	93.6	124	16.4
Heptane	140000	4.28	ND	ND	7.04
n-Hexane	240000	11.4	3.71	15.9	13.6
4-Methyl-2-pentanone	1000000	ND	ND	ND	ND
Methylene Chloride	34000	4.67	5.94	ND	4.28
MTBE	3600	ND	ND	ND	3.67
2-Propanol	70000	ND	ND	ND	ND
Propene	1000000	12.4	0.81	22.5	53.4
Propylbenzene	350000	ND	ND	ND	ND
Styrene	350000	1.41	ND	ND	0.892
Tetrachloroethylene	3600	5420	1690	124000	24000
Tetrahydrofuran	700000	ND	ND	ND	ND
Toluene	1700000	20.4	5.28	16.7	18.7
1,1,1-Trichloroethane	1700000	23.3	50	1060	55.9
Trichloroethylene	160	357	672	24100	4470
1,2,4-Trimethylbenzene	21000	10.6	7.98	ND	8.62
1,3,5-Trimethylbenzene	21000	3.05	2.04	ND	2.44
2,2,4-Trimethylpentane	NL	12.9	1	26	17.4
Vinyl chloride	56	ND	ND	ND	71.5
m&p-Xylene	35000	19.1	9.79	ND	14.6
o-Xylene	35000	6.73	2.98	ND	5.05

		Round #1			Round #2		Round #3		Round #4	
Analyte	EPA Target Indoor Air Concentration	A-1	A-2 (warehouse)	A-3 (warehouse)	A-8	A-9	A-10	A-11	A-12	A-13
Date of Sampling		1/22/2019	1/22/2019	1/22/2019	5/23/2019	5/23/2019	6/25/2019	6/25/2019	8/2/2019	8/2/2019
VOC's										
Acetone	320000	270	490E	720E	36	26	44	44	78 J0	88 J0E
Benzene	3.6	9.8	11	11	7.8	7.9	5.2	5.2	4.6	4.2
1,3-Butadiene	0.94	4	3.7	4.7	1.9	2.3	2.3	2.3	1	1
2-Butanone (Methyl Ethyl Ketone)	52000	ND	ND	4.8	ND	ND	5.8	5.6	ND	3.1
Carbon disulfide	7300	ND	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	4.7	0.5	0.6	0.64	0.88	0.81	0.55	0.53	0.49	0.5
Chloroform	1.2	1.3	1.7	1.8	2.6	2.6	0.83	0.83	1	1
Chloromethane	940	ND	ND	ND	ND	ND	ND	ND	ND	ND
Cumene	4200	1.8	2	2.5	ND	ND	ND	ND	ND	ND
Cyclohexane	63000	6.9	7.2	7.8	5	2.6	1.9	1.9	2	1.9
1,1-Dichloroethane	18	0.46	0.62	0.7	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	2100	0.2	0.27	0.28	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	NL	13	16	18	1.7	1.3	0.28	0.28	0.36	0.36
trans-1,2-Dichloroethene	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Ethanol	NL	810E	400E	330E	360E	240	140E	140E	110	84
Ethylbenzene	11	11	16	18	7	7	2.8	2.8	2.4	2.4
4-Ethyltoluene	NL	14	15	16	19	20	6.3	6.4	1.5	1.5
Freon 11	NL	ND	ND	ND	ND	ND	1.2	1.3	1.1	1.1
Freon 12	NL	2.4	2.3	2.3	2.4	2.4	2.3	2.4	1.9	1.9
Trichlorofluoromethane	NL	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	1000	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichlorotrifluoroethane	52000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heptane	4200	14	15	13	10	8.5	4.7	4.7	5.4	4.6
n-Hexane	7300	32	36	35	19	18	9	9.2	10	9.7
4-Methyl-2-pentanone	31000	17	39	59	1.6	2.6	0.75	0.72	0.8	0.87
Methylene Chloride	1000	3.2	ND	ND	3.3	2.6	ND	ND	ND	ND
MTBE	110	ND	ND	ND	ND	ND	ND	ND	ND	ND
2-Propanol	NL	65 J0	34 J0	31 J0	6.2	5.1	67	68	10	6.2
Propene	2100	ND	ND	ND	ND	ND	ND	ND	ND	ND
Propylbenzene	10000	8.4	9	10	3.2	3.2	1.3	1.3	0.94	1
Styrene	10000	ND	ND	ND	ND	1.5 J	ND	0.73	ND	ND
Tetrachloroethylene	110	230	260	280	82	68	12	12	29	30
Tetrahydrofuran	21000	ND	ND	ND	ND	ND	3.3	ND	ND	ND
Toluene	52000	31	39	40	34	34	15	16	14	13
1,1,1-Trichloroethane	52000	3.2	4.3	4.7	1.1	1.1	0.24	0.24	ND	ND
Trichloroethylene	4.8	20	25	28	6.6	6	1.4	1.4	1.1	1.3
1,2,4-Trimethylbenzene	630	38	45	50	21	20	6	6.3	4.4	4.6
1,3,5-Trimethylbenzene	630	12	14	15	5.9	6.5	2	2	1.4	1.3
2,2,4-Trimethylpentane	NL	38	42	42	24	24	13	14	14	14
Vinyl chloride	1.7	0.15	0.081	0.084	ND	ND	ND	ND	ND	ND
m&p-Xylene	1000	37	54	62	27	26	9.4	9.3	8.9	8.8
o-Xylene	1000	14	19	21	10	10	3.6	3.6	3.3	3.3

Location 1 =

Location 2 =

Notes:
1) µg/m³
2) ND - Non Detect
3) Only analytes that have one or more detections are shown
4) EPA screening levels are highlighted if an analyte tested exceeds those levels
5) EPA Screening Levels are from the EPA's Resident Vapor Intrusion Screening Levels - May 2018
6) Numbers listed in red pertain to Target Sub-Slab and Near-Source Soil Gas Concentrations which exceed the EPA's Resident Vapor Intrusion Screening Levels
7) Numbers listed in orange pertain to Target Indoor Air Concentrations which exceed the EPA's Resident Vapor Intrusion Screening Levels
8) NL - Not-Listed
9) See Figure 1 for sampling locations
10) E - Exceeds instrument calibration range
11) J - Estimated value

Amato Property/9120 Talbot Ave
18006 - 3/25/2019
Laboratory Results - Groundwater

	MW-1	MW-2	MW-3
VOCs			
TPH Low Fraction GRO	4.01	0.196	3.6
Benzene	0.00453	ND	ND
Chloroform	0.18	ND	0.00878
1,1-Dichloroethane	ND	ND	0.00321
1,1-Dichloroethene	0.0373	ND	0.00321
cis-1,2-Dichloroethene	2.88	0.068	4.13
trans-1,2-Dichloroethene	0.0304	0.00218	0.0533
Methyl tert-butyl ether	0.00527	ND	0.00838
1,1,2-Trichlorotrifluoroethane	0.00862	ND	ND
Tetrachloroethene	0.322	0.039	0.17
1,1,1-Trichloroethane	0.176	ND	ND
Trichloroethene	0.329	0.0184	0.167
Vinyl Chloride	0.0384	ND	0.296
SVOCs			
TPH-High Fraction DRO	0.919	ND	1.08

*mg/l
**ND - Non-Detect
***Only analytes that have one or more detections are shown

ANALYTICAL REPORT

March 23, 2019

Clendenin Consulting Group - VA

Sample Delivery Group:	L1079371
Samples Received:	03/15/2019
Project Number:	18006
Description:	Amato Industries/9120 Talbot Ave

Report To: Samantha Kirk
116 C2 Edwards Ferry Road
Leesburg, VA 20176

Entire Report Reviewed By: Pamela A. Langford

Pam Langford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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SAMPLE SUMMARY

ONE LAB. NATIONWIDE.

MW-1 L1079371-01 GW

Collected by	Collected date/time	Received date/time
SJK/JWM	03/14/19 11:05	03/15/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1250839	1	03/17/19 22:00	03/17/19 22:00	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1251728	1	03/19/19 18:52	03/19/19 18:52	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1253638	200	03/21/19 23:11	03/21/19 23:11	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1252655	1	03/20/19 16:53	03/21/19 21:54	TH	Mt. Juliet, TN

MW-2 L1079371-02 GW

Collected by	Collected date/time	Received date/time
SJK/JWM	03/14/19 11:20	03/15/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1250839	1	03/17/19 22:24	03/17/19 22:24	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1251728	1	03/19/19 19:12	03/19/19 19:12	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1253638	1	03/21/19 23:31	03/21/19 23:31	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1251652	1	03/18/19 21:46	03/20/19 00:04	TH	Mt. Juliet, TN

MW-3 L1079371-03 GW

Collected by	Collected date/time	Received date/time
SJK/JWM	03/14/19 11:35	03/15/19 08:45

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1250839	1	03/17/19 22:48	03/17/19 22:48	ACG	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1251728	1	03/19/19 19:32	03/19/19 19:32	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1253638	200	03/21/19 23:51	03/21/19 23:51	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1252655	1	03/20/19 16:53	03/21/19 22:12	TH	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Pamela A. Langford

Pam Langford
Project Manager

Sample Handling and Receiving

2-Chloroethyl vinyl ether degrades under acidic conditions. Associated results were determined from the analysis of an acid-preserved sample.

Lab Sample ID	Project Sample ID	Method
L1079371-01	MW-1	8260B
L1079371-02	MW-2	8260B
L1079371-03	MW-3	8260B

MW-1

Collected date/time: 03/14/19 11:05

SAMPLE RESULTS - 01

L1079371

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	4.01		0.100	1	03/17/2019 22:00	WG1250839
(S) α,α,α-Trifluorotoluene(FID)	*95.0*		*78.0-120*		*03/17/2019 22:00*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	J4	0.0500	1	03/19/2019 18:52	WG1251728
Acrolein	ND		0.0500	1	03/19/2019 18:52	WG1251728
Acrylonitrile	ND		0.0100	1	03/19/2019 18:52	WG1251728
Benzene	0.00453		0.00100	1	03/19/2019 18:52	WG1251728
Bromobenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
Bromodichloromethane	ND		0.00100	1	03/19/2019 18:52	WG1251728
Bromoform	ND		0.00100	1	03/19/2019 18:52	WG1251728
Bromomethane	ND		0.00500	1	03/19/2019 18:52	WG1251728
n-Butylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
sec-Butylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
tert-Butylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
Carbon tetrachloride	ND		0.00100	1	03/19/2019 18:52	WG1251728
Chlorobenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
Chlorodibromomethane	ND		0.00100	1	03/19/2019 18:52	WG1251728
Chloroethane	ND		0.00500	1	03/19/2019 18:52	WG1251728
2-Chloroethyl vinyl ether	ND		0.0500	1	03/19/2019 18:52	WG1251728
Chloroform	0.180		0.00500	1	03/19/2019 18:52	WG1251728
Chloromethane	ND		0.00250	1	03/19/2019 18:52	WG1251728
2-Chlorotoluene	ND		0.00100	1	03/19/2019 18:52	WG1251728
4-Chlorotoluene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	03/19/2019 18:52	WG1251728
1,2-Dibromoethane	ND		0.00100	1	03/19/2019 18:52	WG1251728
Dibromomethane	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,2-Dichlorobenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,3-Dichlorobenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,4-Dichlorobenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
Dichlorodifluoromethane	ND		0.00500	1	03/19/2019 18:52	WG1251728
1,1-Dichloroethane	ND		0.200	200	03/21/2019 23:11	WG1253638
1,2-Dichloroethane	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,1-Dichloroethene	0.0373		0.00100	1	03/19/2019 18:52	WG1251728
cis-1,2-Dichloroethene	2.88		0.200	200	03/21/2019 23:11	WG1253638
trans-1,2-Dichloroethene	0.0304		0.00100	1	03/19/2019 18:52	WG1251728
1,2-Dichloropropane	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,1-Dichloropropene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,3-Dichloropropane	ND	J4	0.00100	1	03/19/2019 18:52	WG1251728
cis-1,3-Dichloropropene	ND		0.00100	1	03/19/2019 18:52	WG1251728
trans-1,3-Dichloropropene	ND		0.00100	1	03/19/2019 18:52	WG1251728
2,2-Dichloropropane	ND		0.00100	1	03/19/2019 18:52	WG1251728
Di-isopropyl ether	ND		0.00100	1	03/19/2019 18:52	WG1251728
Ethylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
Hexachloro-1,3-butadiene	ND		0.00100	1	03/19/2019 18:52	WG1251728
Isopropylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
p-Isopropyltoluene	ND		0.00100	1	03/19/2019 18:52	WG1251728
2-Butanone (MEK)	ND		0.0100	1	03/19/2019 18:52	WG1251728
Methylene Chloride	ND		0.00500	1	03/19/2019 18:52	WG1251728
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	03/19/2019 18:52	WG1251728
Methyl tert-butyl ether	0.00527		0.00100	1	03/19/2019 18:52	WG1251728
Naphthalene	ND		0.00500	1	03/19/2019 18:52	WG1251728
n-Propylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728

MW-1

Collected date/time: 03/14/19 11:05

SAMPLE RESULTS - 01

L1079371

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Styrene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,1,1,2-Tetrachloroethane	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,1,2,2-Tetrachloroethane	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,1,2-Trichlorotrifluoroethane	0.00862		0.00100	1	03/19/2019 18:52	WG1251728
Tetrachloroethene	0.322		0.200	200	03/21/2019 23:11	WG1253638
Toluene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,2,3-Trichlorobenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,2,4-Trichlorobenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,1,1-Trichloroethane	0.176		0.00100	1	03/19/2019 18:52	WG1251728
1,1,2-Trichloroethane	ND		0.00100	1	03/19/2019 18:52	WG1251728
Trichloroethene	0.329		0.200	200	03/21/2019 23:11	WG1253638
Trichlorofluoromethane	ND		0.00500	1	03/19/2019 18:52	WG1251728
1,2,3-Trichloropropane	ND		0.00250	1	03/19/2019 18:52	WG1251728
1,2,4-Trimethylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,2,3-Trimethylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
1,3,5-Trimethylbenzene	ND		0.00100	1	03/19/2019 18:52	WG1251728
Vinyl chloride	0.0384		0.00100	1	03/19/2019 18:52	WG1251728
Xylenes, Total	ND		0.00300	1	03/19/2019 18:52	WG1251728
(S) Toluene-d8	*93.3*		*80.0-120*		*03/19/2019 18:52*	WG1251728
(S) Toluene-d8	*89.9*		*80.0-120*		*03/21/2019 23:11*	WG1253638
(S) 4-Bromofluorobenzene	*104*		*77.0-126*		*03/19/2019 18:52*	WG1251728
(S) 4-Bromofluorobenzene	*105*		*77.0-126*		*03/21/2019 23:11*	WG1253638
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*03/19/2019 18:52*	WG1251728
(S) 1,2-Dichloroethane-d4	*105*		*70.0-130*		*03/21/2019 23:11*	WG1253638

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.919		0.100	1	03/21/2019 21:54	WG1252655
(S) o-Terphenyl	*94.7*		*31.0-160*		*03/21/2019 21:54*	WG1252655

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.196	B	0.100	1	03/17/2019 22:24	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*94.3*		*78.0-120*		*03/17/2019 22:24*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	J4	0.0500	1	03/19/2019 19:12	WG1251728
Acrolein	ND		0.0500	1	03/19/2019 19:12	WG1251728
Acrylonitrile	ND		0.0100	1	03/19/2019 19:12	WG1251728
Benzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
Bromobenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
Bromodichloromethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
Bromoform	ND		0.00100	1	03/19/2019 19:12	WG1251728
Bromomethane	ND		0.00500	1	03/19/2019 19:12	WG1251728
n-Butylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
sec-Butylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
tert-Butylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
Carbon tetrachloride	ND		0.00100	1	03/19/2019 19:12	WG1251728
Chlorobenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
Chlorodibromomethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
Chloroethane	ND		0.00500	1	03/19/2019 19:12	WG1251728
2-Chloroethyl vinyl ether	ND		0.0500	1	03/19/2019 19:12	WG1251728
Chloroform	ND		0.00500	1	03/19/2019 19:12	WG1251728
Chloromethane	ND		0.00250	1	03/19/2019 19:12	WG1251728
2-Chlorotoluene	ND		0.00100	1	03/19/2019 19:12	WG1251728
4-Chlorotoluene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	03/19/2019 19:12	WG1251728
1,2-Dibromoethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
Dibromomethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,2-Dichlorobenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,3-Dichlorobenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,4-Dichlorobenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
Dichlorodifluoromethane	ND		0.00500	1	03/19/2019 19:12	WG1251728
1,1-Dichloroethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,2-Dichloroethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,1-Dichloroethene	ND		0.00100	1	03/19/2019 19:12	WG1251728
cis-1,2-Dichloroethene	0.0680		0.00100	1	03/21/2019 23:31	WG1253638
trans-1,2-Dichloroethene	0.00218		0.00100	1	03/19/2019 19:12	WG1251728
1,2-Dichloropropane	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,1-Dichloropropene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,3-Dichloropropane	ND	J4	0.00100	1	03/19/2019 19:12	WG1251728
cis-1,3-Dichloropropene	ND		0.00100	1	03/19/2019 19:12	WG1251728
trans-1,3-Dichloropropene	ND		0.00100	1	03/19/2019 19:12	WG1251728
2,2-Dichloropropane	ND		0.00100	1	03/19/2019 19:12	WG1251728
Di-Isopropyl ether	ND		0.00100	1	03/19/2019 19:12	WG1251728
Ethylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
Hexachloro-1,3-butadiene	ND		0.00100	1	03/19/2019 19:12	WG1251728
Isopropylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
p-Isopropyltoluene	ND		0.00100	1	03/19/2019 19:12	WG1251728
2-Butanone (MEK)	ND		0.0100	1	03/19/2019 19:12	WG1251728
Methylene Chloride	ND		0.00500	1	03/19/2019 19:12	WG1251728
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	03/19/2019 19:12	WG1251728
Methyl tert-butyl ether	ND		0.00100	1	03/19/2019 19:12	WG1251728
Naphthalene	ND		0.00500	1	03/19/2019 19:12	WG1251728
n-Propylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728

MW-2

Collected date/time: 03/14/19 11:20

SAMPLE RESULTS - 02

L1079371

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Styrene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,1,1,2-Tetrachloroethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,1,2,2-Tetrachloroethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
Tetrachloroethene	0.0390		0.00100	1	03/21/2019 23:31	WG1253638
Toluene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,2,3-Trichlorobenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,2,4-Trichlorobenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,1,1-Trichloroethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,1,2-Trichloroethane	ND		0.00100	1	03/19/2019 19:12	WG1251728
Trichloroethene	0.0184		0.00100	1	03/21/2019 23:31	WG1253638
Trichlorofluoromethane	ND		0.00500	1	03/19/2019 19:12	WG1251728
1,2,3-Trichloropropane	ND		0.00250	1	03/19/2019 19:12	WG1251728
1,2,4-Trimethylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,2,3-Trimethylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
1,3,5-Trimethylbenzene	ND		0.00100	1	03/19/2019 19:12	WG1251728
Vinyl chloride	ND		0.00100	1	03/19/2019 19:12	WG1251728
Xylenes, Total	ND		0.00300	1	03/19/2019 19:12	WG1251728
(S) Toluene-d8	*91.7*		*80.0-120*		*03/19/2019 19:12*	WG1251728
(S) Toluene-d8	*87.0*		*80.0-120*		*03/21/2019 23:31*	WG1253638
(S) 4-Bromofluorobenzene	*99.4*		*77.0-126*		*03/19/2019 19:12*	WG1251728
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*03/21/2019 23:31*	WG1253638
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*03/19/2019 19:12*	WG1251728
(S) 1,2-Dichloroethane-d4	*106*		*70.0-130*		*03/21/2019 23:31*	WG1253638

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	ND		0.100	1	03/20/2019 00:04	WG1251652
(S) o-Terphenyl	*72.1*		*31.0-160*		*03/20/2019 00:04*	WG1251652

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	3.60		0.100	1	03/17/2019 22:48	WG1250839
(S) a,a,a-Trifluorotoluene(FID)	*94.0*		*78.0-120*		*03/17/2019 22:48*	WG1250839

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND	J4	0.0500	1	03/19/2019 19:32	WG1251728
Acrolein	ND		0.0500	1	03/19/2019 19:32	WG1251728
Acrylonitrile	ND		0.0100	1	03/19/2019 19:32	WG1251728
Benzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
Bromobenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
Bromodichloromethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
Bromoform	ND		0.00100	1	03/19/2019 19:32	WG1251728
Bromomethane	ND		0.00500	1	03/19/2019 19:32	WG1251728
n-Butylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
sec-Butylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
tert-Butylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
Carbon tetrachloride	ND		0.00100	1	03/19/2019 19:32	WG1251728
Chlorobenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
Chlorodibromomethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
Chloroethane	ND		0.00500	1	03/19/2019 19:32	WG1251728
2-Chloroethyl vinyl ether	ND		0.0500	1	03/19/2019 19:32	WG1251728
Chloroform	0.00878		0.00500	1	03/19/2019 19:32	WG1251728
Chloromethane	ND		0.00250	1	03/19/2019 19:32	WG1251728
2-Chlorotoluene	ND		0.00100	1	03/19/2019 19:32	WG1251728
4-Chlorotoluene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	03/19/2019 19:32	WG1251728
1,2-Dibromoethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
Dibromomethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,2-Dichlorobenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,3-Dichlorobenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,4-Dichlorobenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
Dichlorodifluoromethane	ND		0.00500	1	03/19/2019 19:32	WG1251728
1,1-Dichloroethane	0.00321		0.00100	1	03/19/2019 19:32	WG1251728
1,2-Dichloroethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,1-Dichloroethene	0.00321		0.00100	1	03/19/2019 19:32	WG1251728
cis-1,2-Dichloroethene	4.13		0.200	200	03/21/2019 23:51	WG1253638
trans-1,2-Dichloroethene	0.0533		0.00100	1	03/19/2019 19:32	WG1251728
1,2-Dichloropropane	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,1-Dichloropropene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,3-Dichloropropane	ND	J4	0.00100	1	03/19/2019 19:32	WG1251728
cis-1,3-Dichloropropene	ND		0.00100	1	03/19/2019 19:32	WG1251728
trans-1,3-Dichloropropene	ND		0.00100	1	03/19/2019 19:32	WG1251728
2,2-Dichloropropane	ND		0.00100	1	03/19/2019 19:32	WG1251728
Di-isopropyl ether	ND		0.00100	1	03/19/2019 19:32	WG1251728
Ethylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
Hexachloro-1,3-butadiene	ND		0.00100	1	03/19/2019 19:32	WG1251728
Isopropylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
p-Isopropyltoluene	ND		0.00100	1	03/19/2019 19:32	WG1251728
2-Butanone (MEK)	ND		0.0100	1	03/19/2019 19:32	WG1251728
Methylene Chloride	ND		0.00500	1	03/19/2019 19:32	WG1251728
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	03/19/2019 19:32	WG1251728
Methyl tert-butyl ether	0.00838		0.00100	1	03/19/2019 19:32	WG1251728
Naphthalene	ND		0.00500	1	03/19/2019 19:32	WG1251728
n-Propylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Styrene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,1,1,2-Tetrachloroethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,1,2,2-Tetrachloroethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
Tetrachloroethene	0.170		0.00100	1	03/19/2019 19:32	WG1251728
Toluene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,2,3-Trichlorobenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,2,4-Trichlorobenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,1,1-Trichloroethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,1,2-Trichloroethane	ND		0.00100	1	03/19/2019 19:32	WG1251728
Trichloroethene	0.167		0.00100	1	03/19/2019 19:32	WG1251728
Trichlorofluoromethane	ND		0.00500	1	03/19/2019 19:32	WG1251728
1,2,3-Trichloropropane	ND		0.00250	1	03/19/2019 19:32	WG1251728
1,2,4-Trimethylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,2,3-Trimethylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
1,3,5-Trimethylbenzene	ND		0.00100	1	03/19/2019 19:32	WG1251728
Vinyl chloride	0.296		0.200	200	03/21/2019 23:51	WG1253638
Xylenes, Total	ND		0.00300	1	03/19/2019 19:32	WG1251728
(S) Toluene-d8	*92.6*		*80.0-120*		*03/19/2019 19:32*	WG1251728
(S) Toluene-d8	*88.3*		*80.0-120*		*03/21/2019 23:51*	WG1253638
(S) 4-Bromofluorobenzene	*102*		*77.0-126*		*03/19/2019 19:32*	WG1251728
(S) 4-Bromofluorobenzene	*109*		*77.0-126*		*03/21/2019 23:51*	WG1253638
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*03/19/2019 19:32*	WG1251728
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*03/21/2019 23:51*	WG1253638

Semi Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	1.08		0.100	1	03/21/2019 22:12	WG1252655
(S) o-Terphenyl	*91.1*		*31.0-160*		*03/21/2019 22:12*	WG1252655

WG1250839

Volatile Organic Compounds (GC) by Method 8015D/GRO

QUALITY CONTROL SUMMARY

L1079371-01,02,03

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3392535-3 03/17/19 18:27

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) Low Fraction	0.0403	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*93.3*			*78.0-120*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3392535-1 03/17/19 17:16 • (LCSD) R3392535-2 03/17/19 17:40

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) Low Fraction	5.50	5.54	5.75	101	105	72.0-127			3.71	20
(S) a,a,a-Trifluorotoluene(FID)				*97.9*	*98.1*	*78.0-120*				

Method Blank (MB)

(MB) R3393974-2 03/19/19 12:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-Isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100

WG1251728

Volatile Organic Compounds (GC/MS) by Method 8260B

QUALITY CONTROL SUMMARY

L1079371-01,02,03

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3393974-2 03/19/19 12:22

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*93.3*			*80.0-120*
(S) 4-Bromofluorobenzene	*101*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*100*			*70.0-130*

Laboratory Control Sample (LCS)

(LCS) R3393974-1 03/19/19 11:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Acetone	0.125	0.228	183	19.0-160	J4
Acrolein	0.125	0.126	101	10.0-160	
Acrylonitrile	0.125	0.166	133	55.0-149	
Benzene	0.0250	0.0237	94.8	70.0-123	

WG1251728

Volatile Organic Compounds (GC/MS) by Method 8260B

QUALITY CONTROL SUMMARY

L1079371-01,02,03

ONE LAB. NATIONWIDE.

Laboratory Control Sample (LCS)

(LCS) R3393974-1 03/19/19 11:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
Bromobenzene	0.0250	0.0191	**76.5**	73.0-121	
Bromodichloromethane	0.0250	0.0233	93.2	**75.0-120**	
Bromoform	0.0250	0.0247	98.7	68.0-132	
Bromomethane	0.0250	0.0206	82.3	10.0-160	
n-Butylbenzene	0.0250	0.0206	82.5	73.0-125	
sec-Butylbenzene	0.0250	0.0210	83.9	75.0-125	
tert-Butylbenzene	0.0250	0.0200	79.8	76.0-124	
Carbon tetrachloride	0.0250	0.0257	103	68.0-126	
Chlorobenzene	0.0250	0.0216	86.3	80.0-121	
Chlorodibromomethane	0.0250	0.0210	83.9	77.0-125	
Chloroethane	0.0250	0.0202	80.7	47.0-150	
2-Chloroethyl vinyl ether	0.125	0.118	94.6	51.0-160	
Chloroform	0.0250	0.0238	95.0	73.0-120	
Chloromethane	0.0250	0.0191	76.3	41.0-142	
2-Chlorotoluene	0.0250	0.0201	80.5	76.0-123	
4-Chlorotoluene	0.0250	0.0196	78.2	75.0-122	
1,2-Dibromo-3-Chloropropane	0.0250	0.0232	92.7	58.0-134	
1,2-Dibromoethane	0.0250	0.0206	82.4	80.0-122	
Dibromomethane	0.0250	0.0224	89.8	80.0-120	
1,2-Dichlorobenzene	0.0250	0.0202	80.9	79.0-121	
1,3-Dichlorobenzene	0.0250	0.0205	82.2	79.0-120	
1,4-Dichlorobenzene	0.0250	0.0206	82.3	79.0-120	
Dichlorodifluoromethane	0.0250	0.0196	78.3	51.0-149	
1,1-Dichloroethane	0.0250	0.0239	95.7	70.0-126	
1,2-Dichloroethane	0.0250	0.0229	91.8	70.0-128	
1,1-Dichloroethene	0.0250	0.0237	94.6	71.0-124	
trans-1,2-Dichloroethene	0.0250	0.0256	102	73.0-120	
1,2-Dichloropropane	0.0250	0.0225	90.0	77.0-125	
1,1-Dichloropropene	0.0250	0.0247	98.7	74.0-126	
1,3-Dichloropropane	0.0250	0.0194	77.6	80.0-120	J4
cis-1,3-Dichloropropene	0.0250	0.0233	93.2	80.0-123	
trans-1,3-Dichloropropene	0.0250	0.0201	80.3	78.0-124	
2,2-Dichloropropane	0.0250	0.0297	119	58.0-130	
Di-isopropyl ether	0.0250	0.0232	92.9	58.0-138	
Ethylbenzene	0.0250	0.0225	90.2	79.0-123	
Hexachloro-1,3 butadiene	0.0250	0.0180	72.2	54.0-138	
Isopropylbenzene	0.0250	0.0245	98.2	76.0-127	
p-Isopropyltoluene	0.0250	0.0210	84.2	76.0-125	
2-Butanone (MEK)	0.125	0.133	106	44.0-160	
Methylene Chloride	0.0250	0.0230	92.0	67.0-120	

WG1251728

Volatile Organic Compounds (GC/MS) by Method 8260B

QUALITY CONTROL SUMMARY

L1079371-01,02,03

Laboratory Control Sample (LCS)

(LCS) R3393974-1 03/19/19 11:42

Analyte	Spike Amount mg/l	LCS Result mg/l	LCS Rec. %	Rec. Limits %	LCS Qualifier
4-Methyl-2-pentanone (MIBK)	0.125	0.110	88.4	68.0-142	
Methyl tert-butyl ether	0.0250	0.0257	103	68.0-125	
Naphthalene	0.0250	0.0186	74.2	54.0-135	
n-Propylbenzene	0.0250	0.0198	79.1	77.0-124	
Styrene	0.0250	0.0223	89.2	73.0-130	
1,1,1,2-Tetrachloroethane	0.0250	0.0234	93.6	75.0-125	
1,1,2,2-Tetrachloroethane	0.0250	0.0203	81.0	65.0-130	
Tetrachloroethene	0.0250	0.0219	87.8	72.0-132	
Toluene	0.0250	0.0202	80.7	79.0-120	
1,1,2-Trichlorotrifluoroethane	0.0250	0.0239	95.5	69.0-132	
1,2,3-Trichlorobenzene	0.0250	0.0176	70.2	50.0-138	
1,2,4-Trichlorobenzene	0.0250	0.0171	68.2	57.0-137	
1,1,1-Trichloroethane	0.0250	0.0259	104	73.0-124	
1,1,2-Trichloroethane	0.0250	0.0201	80.5	80.0-120	
Trichloroethene	0.0250	0.0235	94.0	78.0-124	
Trichlorofluoromethane	0.0250	0.0205	82.1	59.0-147	
1,2,3-Trichloropropane	0.0250	0.0191	76.3	73.0-130	
1,2,3-Trimethylbenzene	0.0250	0.0196	78.6	77.0-120	
1,2,4-Trimethylbenzene	0.0250	0.0203	81.3	76.0-121	
1,3,5-Trimethylbenzene	0.0250	0.0202	80.7	76.0-122	
Vinyl chloride	0.0250	0.0209	83.5	67.0-131	
Xylenes, Total	0.0750	0.0677	90.3	79.0-123	
(S) Toluene-d8			*88.1*	*80.0-120*	
(S) 4-Bromofluorobenzene			*105*	*77.0-126*	
(S) 1,2-Dichloroethane-d4			*113*	*70.0-130*	

WG1253638

Volatile Organic Compounds (GC/MS) by Method 8260B

QUALITY CONTROL SUMMARY

L1079371-01,02,03

ONE LAB. NATIONWIDE

Method Blank (MB)

(MB) R3394102-3 03/21/19 21:42

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
1,1-Dichloroethane	U		0.000259	0.00100
cis-1,2-Dichloroethene	U		0.000260	0.00100
Tetrachloroethene	U		0.000372	0.00100
Trichloroethene	U		0.000398	0.00100
Vinyl chloride	U		0.000259	0.00100
(S) Toluene-d8	*87.9*			*80.0-120*
(S) 4-Bromofluorobenzene	*112*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*105*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3394102-1 03/21/19 20:41 • (LCSD) R3394102-2 03/21/19 21:01

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
1,1-Dichloroethane	0.0250	0.0265	0.0272	106	109	70.0-126			2.42	20
cis-1,2-Dichloroethene	0.0250	0.0241	0.0252	96.3	101	73.0-120			4.61	20
Tetrachloroethene	0.0250	0.0247	0.0239	98.9	95.5	72.0-132			3.52	20
Trichloroethene	0.0250	0.0232	0.0240	92.8	95.9	78.0-124			3.32	20
Vinyl chloride	0.0250	0.0213	0.0227	85.0	90.7	67.0-131			6.48	20
(S) Toluene-d8				*93.3*	*90.7*	*80.0-120*				
(S) 4-Bromofluorobenzene				*111*	*111*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*111*	*114*	*70.0-130*				

WG1251652

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

QUALITY CONTROL SUMMARY

L1079371-02

ONE LAB. NATIONWIDE.

Method Blank (MB)

(MB) R3393062-3 03/19/19 14:30

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	0.123		0.0247	0.100
(S) o-Terphenyl	*105*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3393062-1 03/19/19 12:40 • (LCSD) R3393062-2 03/19/19 13:02

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.53	1.55	102	103	50.0-150			1.30	20
(S) o-Terphenyl				*104*	*104*	*31.0-160*				

QUALITY CONTROL SUMMARY

L1079371-01,03

Method Blank (MB)

(MB) R3393740-1 03/21/19 02:10

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*77.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3393740-2 03/21/19 02:27 • (LCSD) R3393740-3 03/21/19 02:44

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
TPH (GC/FID) High Fraction	1.50	1.67	1.70	111	113	50.0-150			1.78	2:
(S) o-Terphenyl				*93.5*	*93.5*	*31.0-160*				

GLOSSARY OF TERMS

ONE LAB. NATIONWIDE.

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

Cp
Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
Al
9 Sc

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LAO00356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

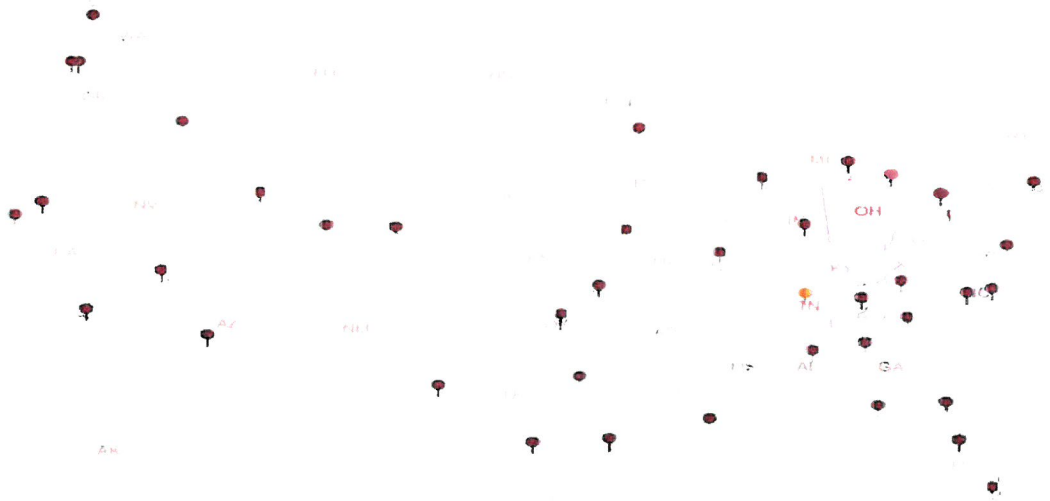
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Clendenin Consulting
116-C2 Edwards Ferry Road
Leesburg, VA 20176

Billing Information:
PO Box 6070
20178

Pres Chk

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

Pace Analytical®
National Center for Testing & Innovation

12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615 758 5858
Phone: 800 767 5859
Fax: 615 758 5859

L# L1079371
B144

Report to: Samantha Kirk

Email To: sam@clendeninconsulting.com

Project Description: Amato Industries/9120 Talbot Ave

City/State Collected: Silver Spring, MD

Phone: 703-771-8816
Fax:

Client Project # 18006

Lab Project #

Collected by (print): SJK/JWM

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day ___ Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC's	TPH-DRO	TPH-GRO	Remarks	Sample # (lab only)
MW-1	Grab	GW		3/14/19	11:05	4	X	X	X		-01
MW-2	Grab	GW		3/14/19	11:20	4	X	X	X		-02
MW-3	Grab	GW		3/14/19	11:35	4	X	X	X		-03

* Matrix:
SS - Soil AIR - Air F - Filter
GW - Groundwater B - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS __ FedEx __ Courier __ _____

Tracking # 7747 0725 9248

Sample Receipt Checklist
COC Seal Present/Intact: NP Y N
COC Signed/Accurate: Y N
Bottles arrive intact: Y N
Correct bottles used: Y N
Sufficient volume sent: Y N
If Applicable
VOA Zero Headspace: Y N
Preservation Correct/Checked: Y N

RAD SCREEN: <0.5 mR/hr

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 3.4:2:3.2 °C Bottles Received: 12	
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature) VW	Date: 3/15/19 Time: 845	Hold: Condition: NCF / OK

Pace Analytical®
National Center for Testing & Innovation

ANALYTICAL REPORT

July 09, 2019

1 Cp
2 Tc
3 Ss
4 Cn
5 Sr
6 Qc
7 Gl
8 Al
9 Sc

Clendenin Consulting Group - VA

Sample Delivery Group:	L1113878
Samples Received:	06/28/2019
Project Number:	18006
Description:	Amato Property

Report To:

116 C2 Edwards Ferry Road
Leesburg, VA 20176

Entire Report Reviewed By: Pamela A. Langford

Pam Langford
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall not be reproduced, except in full, without written approval of the laboratory. Where applicable, sampling conducted by Pace National is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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ONE LAB. NATIONWIDE.

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6 Qc
7 Gl
8 Al
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MW-1 L1113878-01 GW

Collected by	Collected date/time	Received date/time
Win McCormack	06/25/19 11:40	06/28/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1307119	1	07/06/19 17:57	07/06/19 17:57	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1306377	1	07/04/19 04:50	07/04/19 04:50	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1306809	50	07/05/19 13:14	07/05/19 13:14	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1304195	1	06/30/19 18:52	07/01/19 18:10	TH	Mt. Juliet, TN

MW-2 L1113878-02 GW

Collected by	Collected date/time	Received date/time
Win McCormack	06/25/19 12:05	06/28/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1307119	1	07/06/19 20:09	07/06/19 20:09	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1306377	1	07/04/19 05:10	07/04/19 05:10	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1306809	10	07/05/19 13:33	07/05/19 13:33	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1304195	1	06/30/19 18:52	07/01/19 18:31	TH	Mt. Juliet, TN

MW-3 L1113878-03 GW

Collected by	Collected date/time	Received date/time
Win McCormack	06/25/19 12:25	06/28/19 08:30

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Volatile Organic Compounds (GC) by Method 8015D/GRO	WG1307119	1	07/06/19 20:32	07/06/19 20:32	DWR	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1306377	1	07/04/19 05:30	07/04/19 05:30	BMB	Mt. Juliet, TN
Volatile Organic Compounds (GC/MS) by Method 8260B	WG1306809	100	07/05/19 13:53	07/05/19 13:53	ACG	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 3511/8015	WG1304195	1	06/30/19 18:52	07/01/19 18:51	TH	Mt. Juliet, TN

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

Pamela A. Langford

Pam Langford
Project Manager

Sample Handling and Receiving

2-Chloroethyl vinyl ether degrades under acidic conditions. Associated results were determined from the analysis of an acid-preserved sample.

Lab Sample ID	Project Sample ID	Method
L1113878-01	MW-1	8260B
L1113878-02	MW-2	8260B
L1113878-03	MW-3	8260B

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	1.95		0.100	1	07/06/2019 17:57	WG1307119
(S) a,a,a-Trifluorotoluene(FID)	*104*		*78.0-120*		*07/06/2019 17:57*	WG1307119

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	07/04/2019 04:50	WG1306377
Acrolein	ND		0.0500	1	07/04/2019 04:50	WG1306377
Acrylonitrile	ND		0.0100	1	07/04/2019 04:50	WG1306377
Benzene	0.00279		0.00100	1	07/04/2019 04:50	WG1306377
Bromobenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
Bromodichloromethane	ND		0.00100	1	07/04/2019 04:50	WG1306377
Bromoform	ND		0.00100	1	07/04/2019 04:50	WG1306377
Bromomethane	ND		0.00500	1	07/04/2019 04:50	WG1306377
n-Butylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
sec-Butylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
tert-Butylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
Carbon tetrachloride	ND		0.00100	1	07/04/2019 04:50	WG1306377
Chlorobenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
Chlorodibromomethane	ND		0.00100	1	07/04/2019 04:50	WG1306377
Chloroethane	ND		0.00500	1	07/04/2019 04:50	WG1306377
2-Chloroethyl vinyl ether	ND		0.0500	1	07/04/2019 04:50	WG1306377
Chloroform	0.0388		0.00500	1	07/04/2019 04:50	WG1306377
Chloromethane	ND		0.00250	1	07/04/2019 04:50	WG1306377
2-Chlorotoluene	ND		0.00100	1	07/04/2019 04:50	WG1306377
4-Chlorotoluene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/04/2019 04:50	WG1306377
1,2-Dibromoethane	ND		0.00100	1	07/04/2019 04:50	WG1306377
Dibromomethane	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,2-Dichlorobenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,3-Dichlorobenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,4-Dichlorobenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
Dichlorodifluoromethane	ND		0.00500	1	07/04/2019 04:50	WG1306377
1,1-Dichloroethane	0.0783		0.00100	1	07/04/2019 04:50	WG1306377
1,2-Dichloroethane	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,1-Dichloroethene	0.0151		0.00100	1	07/04/2019 04:50	WG1306377
cis-1,2-Dichloroethene	1.23		0.0500	50	07/05/2019 13:14	WG1306809
trans-1,2-Dichloroethene	0.0200		0.00100	1	07/04/2019 04:50	WG1306377
1,2-Dichloropropane	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,1-Dichloropropene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,3-Dichloropropane	ND		0.00100	1	07/04/2019 04:50	WG1306377
cis-1,3-Dichloropropene	ND		0.00100	1	07/04/2019 04:50	WG1306377
trans-1,3-Dichloropropene	ND		0.00100	1	07/04/2019 04:50	WG1306377
2,2-Dichloropropane	ND		0.00100	1	07/04/2019 04:50	WG1306377
Di-isopropyl ether	ND		0.00100	1	07/04/2019 04:50	WG1306377
Ethylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
Hexachloro-1,3-butadiene	ND		0.00100	1	07/04/2019 04:50	WG1306377
Isopropylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
p-Isopropyltoluene	ND		0.00100	1	07/04/2019 04:50	WG1306377
2-Butanone (MEK)	ND		0.0100	1	07/04/2019 04:50	WG1306377
Methylene Chloride	ND		0.00500	1	07/04/2019 04:50	WG1306377
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/04/2019 04:50	WG1306377
Methyl tert-butyl ether	0.00472		0.00100	1	07/04/2019 04:50	WG1306377
Naphthalene	ND		0.00500	1	07/04/2019 04:50	WG1306377
n-Propylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Styrene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,1,2-Trichlorotrifluoroethane	0.00530		0.00100	1	07/04/2019 04:50	WG1306377
Tetrachloroethene	0.572		0.0500	50	07/05/2019 13:14	WG1306809
Toluene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,2,3-Trichlorobenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,2,4-Trichlorobenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,1,1-Trichloroethane	0.0508		0.00100	1	07/04/2019 04:50	WG1306377
1,1,2-Trichloroethane	ND		0.00100	1	07/04/2019 04:50	WG1306377
Trichloroethene	0.575		0.0500	50	07/05/2019 13:14	WG1306809
Trichlorofluoromethane	ND		0.00500	1	07/04/2019 04:50	WG1306377
1,2,3-Trichloropropane	ND		0.00250	1	07/04/2019 04:50	WG1306377
1,2,4-Trimethylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,2,3-Trimethylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
1,3,5-Trimethylbenzene	ND		0.00100	1	07/04/2019 04:50	WG1306377
Vinyl chloride	0.0199		0.00100	1	07/04/2019 04:50	WG1306377
Xylenes, Total	ND		0.00300	1	07/04/2019 04:50	WG1306377
(S) Toluene-d8	*104*		*80.0-120*		*07/04/2019 04:50*	WG1306377
(S) Toluene-d8	*106*		*80.0-120*		*07/05/2019 13:14*	WG1306809
(S) 4-Bromofluorobenzene	*97.0*		*77.0-126*		*07/04/2019 04:50*	WG1306377
(S) 4-Bromofluorobenzene	*102*		*77.0-126*		*07/05/2019 13:14*	WG1306809
(S) 1,2-Dichloroethane-d4	*98.0*		*70.0-130*		*07/04/2019 04:50*	WG1306377
(S) 1,2-Dichloroethane-d4	*104*		*70.0-130*		*07/05/2019 13:14*	WG1306809

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.534		0.100	1	07/01/2019 18:10	WG1304195
(S) o-Terphenyl	*83.2*		*31.0-160*		*07/01/2019 18:10*	WG1304195

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	0.296	B	0.100	1	07/06/2019 20:09	WG1307119
(S) a,a,a-Trifluorotoluene(FID)	*103*		*78.0-120*		*07/06/2019 20:09*	WG1307119

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	07/04/2019 05:10	WG1306377
Acrolein	ND		0.0500	1	07/04/2019 05:10	WG1306377
Acrylonitrile	ND		0.0100	1	07/04/2019 05:10	WG1306377
Benzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
Bromobenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
Bromodichloromethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
Bromoform	ND		0.00100	1	07/04/2019 05:10	WG1306377
Bromomethane	ND		0.00500	1	07/04/2019 05:10	WG1306377
n-Butylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
sec-Butylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
tert-Butylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
Carbon tetrachloride	ND		0.00100	1	07/04/2019 05:10	WG1306377
Chlorobenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
Chlorodibromomethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
Chloroethane	ND		0.00500	1	07/04/2019 05:10	WG1306377
2-Chloroethyl vinyl ether	ND		0.0500	1	07/04/2019 05:10	WG1306377
Chloroform	ND		0.00500	1	07/04/2019 05:10	WG1306377
Chloromethane	ND		0.00250	1	07/04/2019 05:10	WG1306377
2-Chlorotoluene	ND		0.00100	1	07/04/2019 05:10	WG1306377
4-Chlorotoluene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/04/2019 05:10	WG1306377
1,2-Dibromoethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
Dibromomethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,2-Dichlorobenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,3-Dichlorobenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,4-Dichlorobenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
Dichlorodifluoromethane	ND		0.00500	1	07/04/2019 05:10	WG1306377
1,1-Dichloroethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,2-Dichloroethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,1-Dichloroethene	ND		0.00100	1	07/04/2019 05:10	WG1306377
cis-1,2-Dichloroethene	0.254		0.0100	10	07/05/2019 13:33	WG1306809
trans-1,2-Dichloroethene	0.00528		0.00100	1	07/04/2019 05:10	WG1306377
1,2-Dichloropropane	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,1-Dichloropropene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,3-Dichloropropane	ND		0.00100	1	07/04/2019 05:10	WG1306377
cis-1,3-Dichloropropene	ND		0.00100	1	07/04/2019 05:10	WG1306377
trans-1,3-Dichloropropene	ND		0.00100	1	07/04/2019 05:10	WG1306377
2,2-Dichloropropane	ND		0.00100	1	07/04/2019 05:10	WG1306377
Di-isopropyl ether	ND		0.00100	1	07/04/2019 05:10	WG1306377
Ethylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
Hexachloro-1,3-butadiene	ND		0.00100	1	07/04/2019 05:10	WG1306377
Isopropylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
p-Isopropyltoluene	ND		0.00100	1	07/04/2019 05:10	WG1306377
2-Butanone (MEK)	ND		0.0100	1	07/04/2019 05:10	WG1306377
Methylene Chloride	ND		0.00500	1	07/04/2019 05:10	WG1306377
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/04/2019 05:10	WG1306377
Methyl tert-butyl ether	ND		0.00100	1	07/04/2019 05:10	WG1306377
Naphthalene	ND		0.00500	1	07/04/2019 05:10	WG1306377
n-Propylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Styrene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
Tetrachloroethene	0.178		0.00100	1	07/04/2019 05:10	WG1306377
Toluene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,2,3-Trichlorobenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,2,4-Trichlorobenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,1,1-Trichloroethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,1,2-Trichloroethane	ND		0.00100	1	07/04/2019 05:10	WG1306377
Trichloroethene	0.0637		0.00100	1	07/04/2019 05:10	WG1306377
Trichlorofluoromethane	ND		0.00500	1	07/04/2019 05:10	WG1306377
1,2,3-Trichloropropane	ND		0.00250	1	07/04/2019 05:10	WG1306377
1,2,4-Trimethylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,2,3-Trimethylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
1,3,5-Trimethylbenzene	ND		0.00100	1	07/04/2019 05:10	WG1306377
Vinyl chloride	0.00221		0.00100	1	07/04/2019 05:10	WG1306377
Xylenes, Total	ND		0.00300	1	07/04/2019 05:10	WG1306377
(S) Toluene-d8	*107*		*80.0-120*		*07/04/2019 05:10*	WG1306377
(S) Toluene-d8	*104*		*80.0-120*		*07/05/2019 13:33*	WG1306809
(S) 4-Bromofluorobenzene	*99.8*		*77.0-126*		*07/04/2019 05:10*	WG1306377
(S) 4-Bromofluorobenzene	*104*		*77.0-126*		*07/05/2019 13:33*	WG1306809
(S) 1,2-Dichloroethane-d4	*101*		*70.0-130*		*07/04/2019 05:10*	WG1306377
(S) 1,2-Dichloroethane-d4	*104*		*70.0-130*		*07/05/2019 13:33*	WG1306809

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.466		0.100	1	07/01/2019 18:31	WG1304195
(S) o-Terphenyl	*75.8*		*31.0-160*		*07/01/2019 18:31*	WG1304195

Volatile Organic Compounds (GC) by Method 8015D/GRO

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) Low Fraction	2.43		0.100	1	07/06/2019 20:32	WG1307119
(S) a,a,a-Trifluorotoluene(FID)	*103*		*78.0-120*		*07/06/2019 20:32*	WG1307119

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Acetone	ND		0.0500	1	07/04/2019 05:30	WG1306377
Acrolein	ND		0.0500	1	07/04/2019 05:30	WG1306377
Acrylonitrile	ND		0.0100	1	07/04/2019 05:30	WG1306377
Benzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
Bromobenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
Bromodichloromethane	0.00104		0.00100	1	07/04/2019 05:30	WG1306377
Bromoform	ND		0.00100	1	07/04/2019 05:30	WG1306377
Bromomethane	ND		0.00500	1	07/04/2019 05:30	WG1306377
n-Butylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
sec-Butylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
tert-Butylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
Carbon tetrachloride	ND		0.00100	1	07/04/2019 05:30	WG1306377
Chlorobenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
Chlorodibromomethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
Chloroethane	ND		0.00500	1	07/04/2019 05:30	WG1306377
2-Chloroethyl vinyl ether	ND		0.0500	1	07/04/2019 05:30	WG1306377
Chloroform	0.0157		0.00500	1	07/04/2019 05:30	WG1306377
Chloromethane	ND		0.00250	1	07/04/2019 05:30	WG1306377
2-Chlorotoluene	ND		0.00100	1	07/04/2019 05:30	WG1306377
4-Chlorotoluene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,2-Dibromo-3-Chloropropane	ND		0.00500	1	07/04/2019 05:30	WG1306377
1,2-Dibromoethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
Dibromomethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,2-Dichlorobenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,3-Dichlorobenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,4-Dichlorobenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
Dichlorodifluoromethane	ND		0.00500	1	07/04/2019 05:30	WG1306377
1,1-Dichloroethane	0.00256		0.00100	1	07/04/2019 05:30	WG1306377
1,2-Dichloroethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,1-Dichloroethene	0.00277		0.00100	1	07/04/2019 05:30	WG1306377
cis-1,2-Dichloroethene	2.90		0.100	100	07/05/2019 13:53	WG1306809
trans-1,2-Dichloroethene	0.0455		0.00100	1	07/04/2019 05:30	WG1306377
1,2-Dichloropropane	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,1-Dichloropropene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,3-Dichloropropane	ND		0.00100	1	07/04/2019 05:30	WG1306377
cis-1,3-Dichloropropene	ND		0.00100	1	07/04/2019 05:30	WG1306377
trans-1,3-Dichloropropene	ND		0.00100	1	07/04/2019 05:30	WG1306377
2,2-Dichloropropane	ND		0.00100	1	07/04/2019 05:30	WG1306377
Di-isopropyl ether	ND		0.00100	1	07/04/2019 05:30	WG1306377
Ethylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
Hexachloro-1,3-butadiene	ND		0.00100	1	07/04/2019 05:30	WG1306377
Isopropylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
p-Isopropyltoluene	ND		0.00100	1	07/04/2019 05:30	WG1306377
2-Butanone (MEK)	ND		0.0100	1	07/04/2019 05:30	WG1306377
Methylene Chloride	ND		0.00500	1	07/04/2019 05:30	WG1306377
4-Methyl-2-pentanone (MIBK)	ND		0.0100	1	07/04/2019 05:30	WG1306377
Methyl tert-butyl ether	0.0111		0.00100	1	07/04/2019 05:30	WG1306377
Naphthalene	ND		0.00500	1	07/04/2019 05:30	WG1306377
n-Propylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377

Volatile Organic Compounds (GC/MS) by Method 8260B

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
Styrene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,1,1,2-Tetrachloroethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,1,2,2-Tetrachloroethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,1,2-Trichlorotrifluoroethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
Tetrachloroethene	0.147		0.100	100	07/05/2019 13:53	WG1306809
Toluene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,2,3-Trichlorobenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,2,4-Trichlorobenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,1,1-Trichloroethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,1,2-Trichloroethane	ND		0.00100	1	07/04/2019 05:30	WG1306377
Trichloroethene	0.196		0.00100	1	07/04/2019 05:30	WG1306377
Trichlorofluoromethane	ND		0.00500	1	07/04/2019 05:30	WG1306377
1,2,3-Trichloropropane	ND		0.00250	1	07/04/2019 05:30	WG1306377
1,2,4-Trimethylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,2,3-Trimethylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
1,3,5-Trimethylbenzene	ND		0.00100	1	07/04/2019 05:30	WG1306377
Vinyl chloride	0.257		0.100	100	07/05/2019 13:53	WG1306809
Xylenes, Total	ND		0.00300	1	07/04/2019 05:30	WG1306377
(S) Toluene-d8	*108*		*80.0-120*		*07/04/2019 05:30*	WG1306377
(S) Toluene-d8	*103*		*80.0-120*		*07/05/2019 13:53*	WG1306809
(S) 4-Bromofluorobenzene	*99.1*		*77.0-126*		*07/04/2019 05:30*	WG1306377
(S) 4-Bromofluorobenzene	*101*		*77.0-126*		*07/05/2019 13:53*	WG1306809
(S) 1,2-Dichloroethane-d4	*99.9*		*70.0-130*		*07/04/2019 05:30*	WG1306377
(S) 1,2-Dichloroethane-d4	*103*		*70.0-130*		*07/05/2019 13:53*	WG1306809

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

Analyte	Result mg/l	Qualifier	RDL mg/l	Dilution	Analysis date / time	Batch
TPH (GC/FID) High Fraction	0.591		0.100	1	07/01/2019 18:51	WG1304195
(S) o-Terphenyl	*84.2*		*31.0-160*		*07/01/2019 18:51*	WG1304195

Method Blank (MB)

(MB) R3428873-2 07/06/19 12:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) Low Fraction	0.0613	J	0.0314	0.100
(S) a,a,a-Trifluorotoluene(FID)	*104*			*78.0-120*

Laboratory Control Sample (LCS)

(LCS) R3428873-1 07/06/19 11:31

Analyte	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
	mg/l	mg/l	%	%	
TPH (GC/FID) Low Fraction	5.50	5.49	99.8	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			*106*	*78.0-120*	

Method Blank (MB)

(MB) R3427743-3 07/04/19 00:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
Acetone	U		0.0100	0.0500
Acrolein	U		0.00887	0.0500
Acrylonitrile	U		0.00187	0.0100
Benzene	U		0.000331	0.00100
Bromobenzene	U		0.000352	0.00100
Bromodichloromethane	U		0.000380	0.00100
Bromoform	U		0.000469	0.00100
Bromomethane	U		0.000866	0.00500
n-Butylbenzene	U		0.000361	0.00100
sec-Butylbenzene	U		0.000365	0.00100
tert-Butylbenzene	U		0.000399	0.00100
Carbon tetrachloride	U		0.000379	0.00100
Chlorobenzene	U		0.000348	0.00100
Chlorodibromomethane	U		0.000327	0.00100
Chloroethane	U		0.000453	0.00500
2-Chloroethyl vinyl ether	U		0.00301	0.0500
Chloroform	U		0.000324	0.00500
Chloromethane	U		0.000276	0.00250
2-Chlorotoluene	U		0.000375	0.00100
4-Chlorotoluene	U		0.000351	0.00100
1,2-Dibromo-3-Chloropropane	U		0.00133	0.00500
1,2-Dibromoethane	U		0.000381	0.00100
Dibromomethane	U		0.000346	0.00100
1,2-Dichlorobenzene	U		0.000349	0.00100
1,3-Dichlorobenzene	U		0.000220	0.00100
1,4-Dichlorobenzene	U		0.000274	0.00100
Dichlorodifluoromethane	U		0.000551	0.00500
1,1-Dichloroethane	U		0.000259	0.00100
1,2-Dichloroethane	U		0.000361	0.00100
1,1-Dichloroethene	U		0.000398	0.00100
trans-1,2-Dichloroethene	U		0.000396	0.00100
1,2-Dichloropropane	U		0.000306	0.00100
1,1-Dichloropropene	U		0.000352	0.00100
1,3-Dichloropropane	U		0.000366	0.00100
cis-1,3-Dichloropropene	U		0.000418	0.00100
trans-1,3-Dichloropropene	U		0.000419	0.00100
2,2-Dichloropropane	U		0.000321	0.00100
Di-isopropyl ether	U		0.000320	0.00100
Ethylbenzene	U		0.000384	0.00100
Hexachloro-1,3-butadiene	U		0.000256	0.00100

Method Blank (MB)

(MB) R3427743-3 07/04/19 00:11

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
Isopropylbenzene	U		0.000326	0.00100
p-Isopropyltoluene	U		0.000350	0.00100
2-Butanone (MEK)	U		0.00393	0.0100
Methylene Chloride	U		0.00100	0.00500
4-Methyl-2-pentanone (MIBK)	U		0.00214	0.0100
Methyl tert-butyl ether	U		0.000367	0.00100
Naphthalene	U		0.00100	0.00500
n-Propylbenzene	U		0.000349	0.00100
Styrene	U		0.000307	0.00100
1,1,1,2-Tetrachloroethane	U		0.000385	0.00100
1,1,2,2-Tetrachloroethane	U		0.000130	0.00100
Tetrachloroethene	U		0.000372	0.00100
Toluene	U		0.000412	0.00100
1,1,2-Trichlorotrifluoroethane	U		0.000303	0.00100
1,2,3-Trichlorobenzene	U		0.000230	0.00100
1,2,4-Trichlorobenzene	U		0.000355	0.00100
1,1,1-Trichloroethane	U		0.000319	0.00100
1,1,2-Trichloroethane	U		0.000383	0.00100
Trichloroethene	U		0.000398	0.00100
Trichlorofluoromethane	U		0.00120	0.00500
1,2,3-Trichloropropane	U		0.000807	0.00250
1,2,3-Trimethylbenzene	U		0.000321	0.00100
1,2,4-Trimethylbenzene	U		0.000373	0.00100
1,3,5-Trimethylbenzene	U		0.000387	0.00100
Vinyl chloride	U		0.000259	0.00100
Xylenes, Total	U		0.00106	0.00300
(S) Toluene-d8	*108*			*80.0-120*
(S) 4-Bromofluorobenzene	*103*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*104*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3427743-1 07/03/19 23:11 • (LCSD) R3427743-2 07/03/19 23:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
Acetone	0.125	0.123	0.129	98.0	103	19.0-160			4.99	27
Acrolein	0.125	0.125	0.138	100	110	10.0-160			9.56	26
Acrylonitrile	0.125	0.120	0.130	96.0	104	55.0-149			8.13	20
Benzene	0.0250	0.0246	0.0233	98.5	93.2	70.0-123			5.58	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3427743-1 07/03/19 23:11 • (LCSD) R3427743-2 07/03/19 23:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
Bromobenzene	0.0250	0.0250	0.0238	99.9	95.4	73.0-121			4.62	20
Bromodichloromethane	0.0250	0.0252	0.0242	101	96.8	75.0-120			4.27	20
Bromoform	0.0250	0.0241	0.0235	96.5	94.2	68.0-132			2.46	20
Bromomethane	0.0250	0.0397	0.0371	159	148	10.0-160			6.84	25
n-Butylbenzene	0.0250	0.0256	0.0238	102	95.3	73.0-125			7.20	20
sec-Butylbenzene	0.0250	0.0259	0.0239	103	95.6	75.0-125			7.80	20
tert-Butylbenzene	0.0250	0.0249	0.0232	99.7	92.9	76.0-124			7.09	20
Carbon tetrachloride	0.0250	0.0264	0.0250	106	99.9	68.0-126			5.75	20
Chlorobenzene	0.0250	0.0244	0.0232	97.5	92.9	80.0-121			4.91	20
Chlorodibromomethane	0.0250	0.0247	0.0246	98.8	98.6	77.0-125			0.271	20
Chloroethane	0.0250	0.0243	0.0237	97.1	94.6	47.0-150			2.61	20
2-Chloroethyl vinyl ether	0.125	0.128	0.127	102	102	51.0-160			0.178	20
Chloroform	0.0250	0.0245	0.0238	97.9	95.1	73.0-120			2.91	20
Chloromethane	0.0250	0.0208	0.0197	83.2	78.9	41.0-142			5.30	20
2-Chlorotoluene	0.0250	0.0247	0.0233	99.0	93.1	76.0-123			6.06	20
4-Chlorotoluene	0.0250	0.0251	0.0239	100	95.8	75.0-122			4.71	20
1,2-Dibromo-3-Chloropropane	0.0250	0.0220	0.0222	87.9	88.9	58.0-134			1.09	20
1,2-Dibromoethane	0.0250	0.0249	0.0239	99.5	95.7	80.0-122			3.87	20
Dibromomethane	0.0250	0.0245	0.0247	97.9	98.6	80.0-120			0.784	20
1,2-Dichlorobenzene	0.0250	0.0247	0.0240	98.7	96.1	79.0-121			2.71	20
1,3-Dichlorobenzene	0.0250	0.0250	0.0243	99.9	97.2	79.0-120			2.74	20
1,4-Dichlorobenzene	0.0250	0.0247	0.0235	98.9	94.0	79.0-120			5.10	20
Dichlorodifluoromethane	0.0250	0.0309	0.0286	124	114	51.0-149			7.87	20
1,1-Dichloroethane	0.0250	0.0235	0.0224	93.8	89.5	70.0-126			4.69	20
1,2-Dichloroethane	0.0250	0.0238	0.0231	95.1	92.6	70.0-128			2.67	20
1,1-Dichloroethene	0.0250	0.0279	0.0242	112	96.9	71.0-124			14.1	20
trans-1,2-Dichloroethene	0.0250	0.0243	0.0225	97.3	90.1	73.0-120			7.74	20
1,2-Dichloropropane	0.0250	0.0234	0.0223	93.5	89.3	77.0-125			4.56	20
1,1-Dichloropropene	0.0250	0.0251	0.0230	100	92.0	74.0-126			8.74	20
1,3-Dichloropropane	0.0250	0.0242	0.0236	96.9	94.5	80.0-120			2.50	20
cis-1,3-Dichloropropene	0.0250	0.0236	0.0230	94.5	91.9	80.0-123			2.75	20
trans-1,3-Dichloropropene	0.0250	0.0253	0.0240	101	96.1	78.0-124			5.05	20
2,2-Dichloropropane	0.0250	0.0233	0.0219	93.2	87.5	58.0-130			6.35	20
Di-isopropyl ether	0.0250	0.0235	0.0235	93.9	94.0	58.0-138			0.103	20
Ethylbenzene	0.0250	0.0245	0.0228	98.1	91.2	79.0-123			7.33	20
Hexachloro-1,3-butadiene	0.0250	0.0236	0.0227	94.4	90.8	54.0-138			3.90	20
Isopropylbenzene	0.0250	0.0252	0.0232	101	92.8	76.0-127			8.14	20
p-Isopropyltoluene	0.0250	0.0248	0.0235	99.4	94.1	76.0-125			5.49	20
2-Butanone (MEK)	0.125	0.129	0.132	103	106	44.0-160			2.31	20
Methylene Chloride	0.0250	0.0227	0.0217	90.6	86.8	67.0-120			4.29	20

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3427743-1 07/03/19 23:11 • (LCSD) R3427743-2 07/03/19 23:31

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
4-Methyl-2-pentanone (MIBK)	0.125	0.127	0.127	102	102	68.0-142			0.0831	20
Methyl tert-butyl ether	0.0250	0.0247	0.0244	98.9	97.6	68.0-125			1.32	20
Naphthalene	0.0250	0.0237	0.0241	94.9	96.5	54.0-135			1.69	20
n-Propylbenzene	0.0250	0.0254	0.0240	102	95.9	77.0-124			5.96	20
Styrene	0.0250	0.0247	0.0238	98.7	95.3	73.0-130			3.52	20
1,1,1,2-Tetrachloroethane	0.0250	0.0242	0.0227	96.7	90.8	75.0-125			6.24	20
1,1,2,2-Tetrachloroethane	0.0250	0.0246	0.0245	98.3	98.1	65.0-130			0.199	20
Tetrachloroethene	0.0250	0.0249	0.0228	99.8	91.2	72.0-132			8.93	20
Toluene	0.0250	0.0247	0.0229	98.7	91.4	79.0-120			7.67	20
1,1,2-Trichlorotrifluoroethane	0.0250	0.0283	0.0255	113	102	69.0-132			10.5	20
1,2,3-Trichlorobenzene	0.0250	0.0228	0.0233	91.3	93.4	50.0-138			2.18	20
1,2,4-Trichlorobenzene	0.0250	0.0241	0.0240	96.2	95.9	57.0-137			0.352	20
1,1,1-Trichloroethane	0.0250	0.0259	0.0242	104	96.8	73.0-124			6.80	20
1,1,2-Trichloroethane	0.0250	0.0248	0.0242	99.1	96.6	80.0-120			2.50	20
Trichloroethene	0.0250	0.0249	0.0240	99.6	95.9	78.0-124			3.77	20
Trichlorofluoromethane	0.0250	0.0269	0.0250	108	99.9	59.0-147			7.52	20
1,2,3-Trichloropropane	0.0250	0.0267	0.0255	107	102	73.0-130			4.65	20
1,2,3-Trimethylbenzene	0.0250	0.0242	0.0237	96.8	94.8	77.0-120			2.16	20
1,2,4-Trimethylbenzene	0.0250	0.0250	0.0239	99.9	95.6	76.0-121			4.40	20
1,3,5-Trimethylbenzene	0.0250	0.0250	0.0233	100	93.2	76.0-122			7.08	20
Vinyl chloride	0.0250	0.0266	0.0247	107	98.9	67.0-131			7.45	20
Xylenes, Total	0.0750	0.0734	0.0683	97.9	91.1	79.0-123			7.20	20
(S) Toluene-d8				*104*	*103*	*80.0-120*				
(S) 4-Bromofluorobenzene				*98.6*	*96.7*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*110*	*110*	*70.0-130*				

Method Blank (MB)

(MB) R3428222-3 07/05/19 10:11

Analyte	MB Result mg/l	MB Qualifier	MB MDL mg/l	MB RDL mg/l
cis-1,2-Dichloroethene	U		0.000260	0.00100
Tetrachloroethene	U		0.000372	0.00100
Trichloroethene	U		0.000398	0.00100
Vinyl chloride	U		0.000259	0.00100
(S) Toluene-d8	*102*			*80.0-120*
(S) 4-Bromofluorobenzene	*99.2*			*77.0-126*
(S) 1,2-Dichloroethane-d4	*102*			*70.0-130*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3428222-1 07/05/19 09:11 • (LCSD) R3428222-2 07/05/19 09:31

Analyte	Spike Amount mg/l	LCS Result mg/l	LCSD Result mg/l	LCS Rec. %	LCSD Rec. %	Rec. Limits %	LCS Qualifier	LCSD Qualifier	RPD %	RPD Limits %
cis-1,2-Dichloroethene	0.0250	0.0246	0.0248	98.4	99.1	73.0-120			0.656	20
Tetrachloroethene	0.0250	0.0259	0.0251	104	101	72.0-132			2.95	20
Trichloroethene	0.0250	0.0265	0.0263	106	105	78.0-124			0.914	20
Vinyl chloride	0.0250	0.0289	0.0284	116	113	67.0-131			1.87	20
(S) Toluene-d8				*103*	*102*	*80.0-120*				
(S) 4-Bromofluorobenzene				*99.6*	*100*	*77.0-126*				
(S) 1,2-Dichloroethane-d4				*106*	*105*	*70.0-130*				

Semi-Volatile Organic Compounds (GC) by Method 3511/8015

L1113878-01,02,03

Method Blank (MB)

(MB) R3426687-3 07/01/19 15:10

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	mg/l		mg/l	mg/l
TPH (GC/FID) High Fraction	U		0.0247	0.100
(S) o-Terphenyl	*53.0*			*31.0-160*

Laboratory Control Sample (LCS) • Laboratory Control Sample Duplicate (LCSD)

(LCS) R3426687-1 07/01/19 14:29 • (LCSD) R3426687-2 07/01/19 14:49

Analyte	Spike Amount	LCS Result	LCSD Result	LCS Rec.	LCSD Rec.	Rec. Limits	LCS Qualifier	LCSD Qualifier	RPD	RPD Limits
	mg/l	mg/l	mg/l	%	%	%			%	%
TPH (GC/FID) High Fraction	1.50	1.57	1.63	105	109	50.0-150			3.75	20
(S) o-Terphenyl				*90.0*	*95.5*	*31.0-160*				

Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Abbreviations and Definitions

MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
B	The same analyte is found in the associated blank.
J	The identification of the analyte is acceptable; the reported value is an estimate.

ACCREDITATIONS & LOCATIONS

ONE LAB. NATIONWIDE.

Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.
* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660	Nebraska	NE-OS-15-05
Alaska	17-026	Nevada	TN-03-2002-34
Arizona	AZ0612	New Hampshire	2975
Arkansas	88-0469	New Jersey–NELAP	TN002
California	2932	New Mexico [1]	n/a
Colorado	TN00003	New York	11742
Connecticut	PH-0197	North Carolina	Env375
Florida	E87487	North Carolina [1]	DW21704
Georgia	NELAP	North Carolina [3]	41
Georgia [1]	923	North Dakota	R-140
Idaho	TN00003	Ohio–VAP	CL0069
Illinois	200008	Oklahoma	9915
Indiana	C-TN-01	Oregon	TN200002
Iowa	364	Pennsylvania	68-02979
Kansas	E-10277	Rhode Island	LA000356
Kentucky [1 6]	90010	South Carolina	84004
Kentucky [2]	16	South Dakota	n/a
Louisiana	AI30792	Tennessee [1 4]	2006
Louisiana [1]	LA180010	Texas	T104704245-18-15
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	TN00003
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	460132
Minnesota	047-999-395	Washington	C847
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA

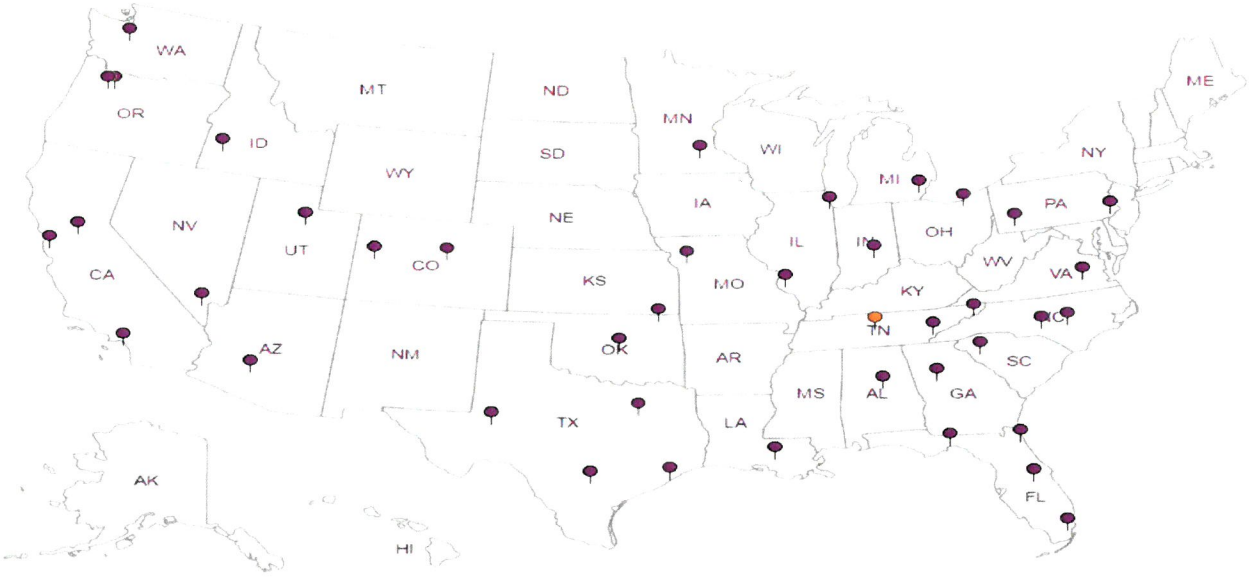
Third Party Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC EMLAP	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	P330-15-00234
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [6] Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



Clendenin Consulting Group - VA
116 C2 Edwards Ferry Road
Leesburg, VA 20176

Billing Information:
Accounts Payable
P.O. Drawer 6070
Leesburg, VA 20178-7406

Pres Chk

Report to: **Winthrop McCormack**

Email To: **winthrop@clendeninconsulting.com**

Project Description: **Amato Industries/9120 Talbot Ave.**

City/State Collected: **Silver Spring, MD**

Phone: **703-771-8816**
Fax:

Client Project # **18006**

Lab Project #

Collected by (print): **Winthrop McCormack**

Site/Facility ID #

P.O. #

Collected by (signature):

Immediately Packed on Ice N ____ Y X

Rush? (Lab MUST Be Notified)
____ Same Day ____ Five Day
____ Next Day ____ 5 Day (Rad Only)
____ Two Day ____ 10 Day (Rad Only)
____ Three Day

Quote #

Date Results Needed
Standard TAT

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Fax: 615-758-5859

L# 1113878
B036

Acctnum:
Template:
Prelogin:
TSR:
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	VOC's	TPH-GRO	TPH-DRO	Remarks	Sample # (lab only)
MW-1	Grab	GW		6/25/19	11:40AM	5	X	X	X		-01
MW-2	Grab	GW		6/25/19	12:05PM	5	X	X	X		-02
MW-3	Grab	GW		6/25/19	12:25PM	5	X	X	X		-03

* Matrix:
SS - Soil **AIR** - Air **F** - Filter
GW - Groundwater **B** - Bioassay
WW - WasteWater
DW - Drinking Water
OT - Other_____

Remarks:

RAD SCREEN: <0.5 mR/hr

pH _____ Temp _____
Flow _____ Other _____

Samples returned via:
__ UPS ✓ FedEx __ Courier _____

Tracking # 7755 8610 5869

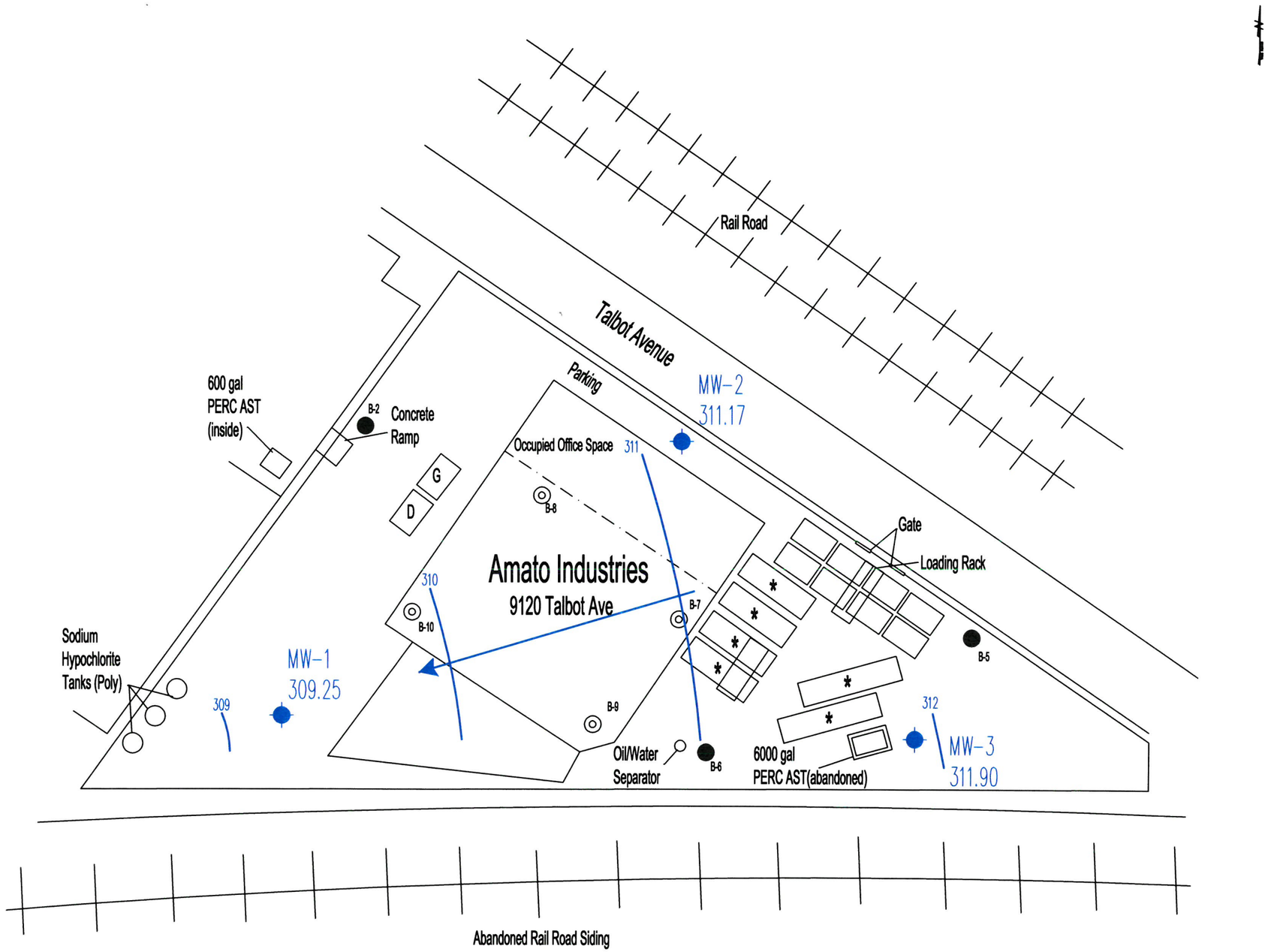
Sample Receipt Checklist
COC Seal Present/Intact: __NP __Y __N
COC Signed/Accurate: __Y __N
Bottles arrive intact: __Y __N
Correct bottles used: __Y __N
Sufficient volume sent: __Y __N
If Applicable
VOA Zero Headspace: __Y __N
Preservation Correct/Checked: __Y __N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes No HCL / MeOH TBR
	6/27/19	2:30PM		

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: °C Bottles Received:
				1.4/0.1.1.5 Y N AL 15

If preservation required by Login: Date/Time

Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date:	Time:	Hold:	Condition: NCF / OK
			Carol Kemp	6/28/19	8:30		



Legend

- Monitoring wells by CCRG installed November 13, 2018
- Approximate Groundwater table elevation contours
- Approximate Groundwater Flow direction

Notes

- Base drawing is based on Figure 2 of Total Environment Concept's report dated March 8, 2004
- Groundwater elevations are based on well measurements taken March 13, 2019

0 30' 60'

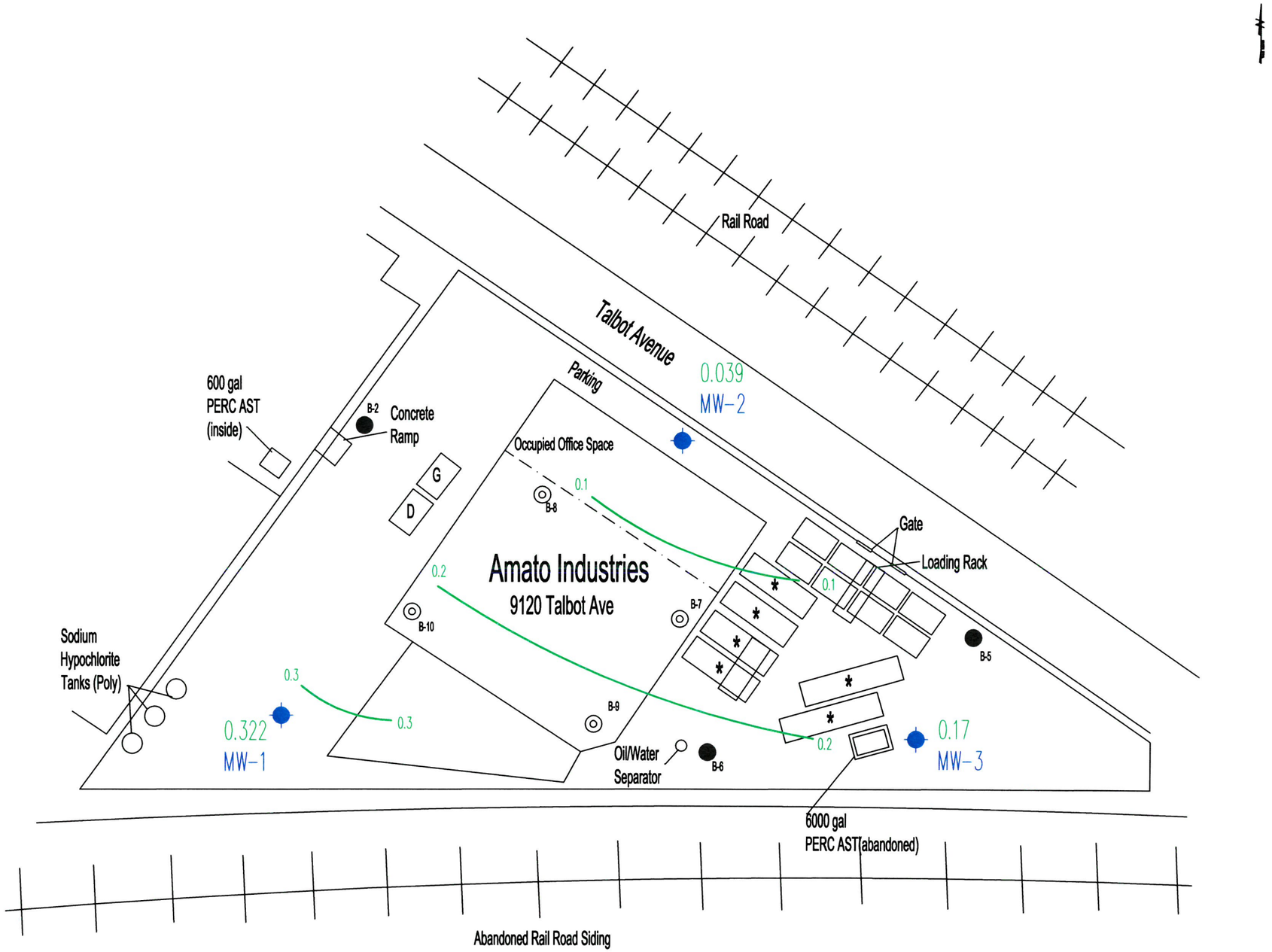
CCRG
Clendenin Consulting & Remediation Group

Amato Industries Characterization

Groundwater Flow

Silver Spring, Marylnd

Date: 3/28/2019	Scale: as shown
Drawn by: JWM	Approved by: BEC
Project #: 18006	Figure: 1



Legend

Monitoring wells by CCRG installed November 13, 2018

Approximate concentration contours of Tetrachloroethene in groundwater

Notes

- Base drawing is based on Figure 2 of Total Environment Concept's report dated March 8, 2004
- Concentrations taken from groundwater samples on March 14, 2019
- Concentrations are in milligrams per liter(mg/L)

CCRG
Clendenin Consulting & Remediation Group

Amato Industries Characterization

Dissolved Phase Tetrachloroethene

Silver Spring, Maryland

Date: 3/29/2019	Scale: as shown
Drawn by: JWM	Approved by: BEC
Project #: 18006	Figure: 2