D2. VOC HAP Calculations / Analytical Report – Run 2 (Vessel Transfer)

VOC HAP Emission Summary - Sprague Searsport Residual Oil Tank #3					
Page 1 of 2	Tank #3 - Run 2 (Vessel Transfer) SUMMA #7785				
Date	20-Jun-12				
Start	12:00				
Stop	16:10				
Compounds		ppb	ug/M3	lb/hr	tons/transfer
2,2,4-Trimethylpentane		720	3360	4.15E-03	2.70E-05
Carbon Disulfide	<	1400	4450	5.50E-03	3.57E-05
Propene	<	25000	43500	5.38E-02	3.49E-04
Vinyl Acetate	<	3200	11200	1.38E-02	9.00E-05
Vinyl Bromide	<	220	962	1.19E-03	7.73E-06
Dichlorodifluoromethane (FREON 12)	<	220	1090	1.35E-03	8.75E-06
1,2-Dichlorotetrafluoroethane	<	190	1310	1.62E-03	1.05E-05
Chloromethane	<	330	681	8.41E-04	5.47E-06
Vinyl Chloride	<	200	506	6.25E-04	4.06E-06
Chloroethane	<	330	871	1.08E-03	7.00E-06
1,3-Butadiene	<	550	1220	1.51E-03	9.80E-06
Trichlorofluoromethane (FREON 11)	<	220	1240	1.53E-03	9.96E-06
Trichlorotrifluoroethane	<	170	1260	1.56E-03	1.01E-05
Ethanol (ethyl alcohol)	<	2500	4770	5.89E-03	3.83E-05
2-propanol	<	3300	8110	1.00E-02	6.51E-05
2-Propanone	<	880	2090	2.58E-03	1.68E-05
Methyl Ethyl Ketone (2-Butanone)	<	3300	9730	1.20E-02	7.81E-05
Methyl Isobutyl Ketone	<	3500	14400	1.78E-02	1.16E-04
Methyl Butyl Ketone (2-Hexanone)	<	2200	9010	1.11E-02	7.24E-05
Methyl t-butyl ether (MTBE)	<	220	793	9.80E-04	6.37E-06
Ethyl Acetate	<	2400	8720	1.08E-02	7.00E-05
1,1-Dichloroethylene	<	280	1090	1.35E-03	8.75E-06
cis-1,2-Dichloroethylene	<	210	829	1.02E-03	6.66E-06
trans-1,2-Dichloroethylene	<	220	872	1.08E-03	7.00E-06
Methylene Chloride(Dichloromethane)	<	1300	4590	5.67E-03	3.69E-05
Chloroform	<	170	806	9.96E-04	6.47E-06
Carbon Tetrachloride	<	330	2080	2.57E-03	1.67E-05
1,1-Dichloroethane	<	220	890	1.10E-03	7.15E-06
1,2-Dichloroethane	<	220	890	1.10E-03	7.15E-06
Ethylene Dibromide	<	190	1440	1.78E-03	1.16E-05
1,1,1-Trichloroethane	<	330	1800	2.22E-03	1.45E-05
1,1,2-Trichloroethane	<	170	900	1.11E-03	7.23E-06
1,1,2,2-Tetrachloroethane	<	220	1510	1.87E-03	1.21E-05
cis-1,3-Dichloropropene	<	200	899	1.11E-03	7.22E-06
trans-1,3-Dichloropropene	<	190	849	1.05E-03	6.82E-06
1,2-Dichloropropane	<	440	2030	2.51E-03	1.63E-05
Volumetric Flow (scfh)	19752				

VOC HAP Emission Summary - Sprague Searsport Residual Oil Tank #3					
Page 2 of 2	Tank #3 - Run 2 (Vessel Transfer) SUMMA #7785				
Date	20-Jun-12				
Start	12:00				
Stop	16:10				
Compounds		ppb	ug/M3	lb/hr	tons/transfer
Bromomethane	<	200	769	9.50E-04	6.18E-06
Bromoform	<	220	2270	2.80E-03	1.82E-05
Bromodichloromethane	<	220	1470	1.82E-03	1.18E-05
Dibromochloromethane	<	220	1870	2.31E-03	1.50E-05
Heptane		37100	152000	1.88E-01	1.22E-03
Trichloroethylene	<	330	1770	2.19E-03	1.42E-05
Tetrachloroethylene	<	220	1490	1.84E-03	1.20E-05
Benzene		11400	36500	4.51E-02	2.93E-04
Toluene		42000	158000	1.95E-01	1.27E-03
Ethylbenzene		11600	50200	6.20E-02	4.03E-04
p+m-Xylene		37000	161000	1.99E-01	1.29E-03
o-Xylene		14900	64800	8.01E-02	5.20E-04
Styrene		524	2230	2.76E-03	1.79E-05
1,3,5-Trimethylbenzene		4860	23900	2.95E-02	1.92E-04
1,2,4-Trimethylbenzene		15000	73900	9.13E-02	5.94E-04
4-ethyltoluene		4500	22100	2.73E-02	1.78E-04
Chlorobenzene	<	220	1010	1.25E-03	8.11E-06
Benzyl chloride	<	1100	5690	7.03E-03	4.57E-05
1,3-Dichlorobenzene	<	440	2650	3.27E-03	2.13E-05
1,4-Dichlorobenzene	<	440	2650	3.27E-03	2.13E-05
1,2-Dichlorobenzene	<	440	2650	3.27E-03	2.13E-05
1,2,4-Trichlorobenzene	<	2200	16300	2.01E-02	1.31E-04
Hexachlorobutadiene	<	3300	35200	4.35E-02	2.83E-04
Hexane		28100	99000	1.22E-01	7.95E-04
Cyclohexane		16500	56900	7.03E-02	4.57E-04
Tetrahydrofuran	<	440	1300	1.61E-03	1.04E-05
1,4-Dioxane	<	2200	7930	9.80E-03	6.37E-05
Xylene (Total)		51900	225000	2.78E-01	1.81E-03
Surrogate Recovery (%)					
Bromochloromethane	85				
D5-Chlorobenzene	81				
Difluorobenzene	86				
Volumetric Flow (scfh)	**19752**				
Max Detected Compound (tons/transfer):	**Xylene (Total)**		**1.81E-03**		
Total Detected HAP (tons/transfer):	**7.26E-03**				
Total Detected/Nondetected HAP (tons/transfer):	**9.13E-03**				

VOC Tentitively Identified Compounds - Sprague Seasport Residual Tank #3				
Page 1 of 1	Tank #3 - Run 2 (Vessel Transfer) SUMMA #7785			
Date	20-Jun-12			
Start	12:00			
Stop	16:10			
Tentitively Identified Compounds	ppb	ug/M3	lb/hr	ton/yr
Butane, 2-methyl-	30000	88307	1.09E-01	7.09E-04
Pentane, 2-methyl-	40000	140638	1.74E-01	1.13E-03
Hexane, 3-methyl-	15000	61325	7.58E-02	4.93E-04
Heptane, 2-methyl-	20000	93213	1.15E-01	7.49E-04
Heptane, 3-methyl-	13000	60589	7.49E-02	4.87E-04
Octane	41000	191087	2.36E-01	1.53E-03
Nonane	38000	198855	2.46E-01	1.60E-03
Volumetric Flow (scfh)	19752			
Total TIC (tons/transfer)	6.70E-03			

Maxxam

Success Through Science®

Your Project #: 11-138
Site Location: SPRAGUE #3
Your C.O.C. #: 12207

Attention: Anthony Stratton
Eastmount Environmental Services
2 New Pasture Road
Unit 5
Newburyport, MA
USA 1950

Report Date: 2012/07/23

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B2A1135
Received: 2012/07/06, 12:50

Sample Matrix: AIR
Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Method Reference
Canister Pressure (TO-15)	2	N/A	2012/07/19	BRL SOP-00304	EPA TO-15
Volatile Organics in Air (TO-15) (1)	2	N/A	2012/07/19	BRL SOP-00304	EPA TO-15

(1) Air sampling canisters have been cleaned in accordance with U.S. EPA Method TO14A. At the end of the cleaning, evacuation, and pressurization cycles, one canister was selected and was pressurized with Zero Air. This canister was then analyzed via TO14A on a GC/MS. The canister must have been found to contain <0.2 ppbv concentration of all target analytes in order for the batch to have been considered clean. Each canister also underwent a leak check prior to shipment.

Please Note: SUMMA® canister samples will be retained by Maxxam for a period of 5 calendar days from the date of this report, after which time they will be cleaned for reuse. If you require a longer sample storage period, please contact your service representative.

Encryption Key

Mike Challis
23 Jul 2012 15:18:04 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Mike Challis, CET, B.Sc, C.Chem, Customer Service Manager, US Air Toxics
Email: MChallis@maxxam.ca
Phone# (905) 817-5790

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 1

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B2A1135
Report Date: 2012/07/23

Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

RESULTS OF ANALYSES OF AIR

Maxxam ID		OA9382	OA9383	
Sampling Date		2012/06/26 14:30	2012/06/26 12:00	
COC Number		12207	12207	
	Units	**S PRAGUE #3- RUN 3 / 1250**	**S PRAGUE #3 - RUN 2 (VESSEL) / 7785**	**QC Batch**
Pressure on Receipt	psig	(-2.9)	(-3.6)	2914994

QC Batch = Quailty Control Batch

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Maxxam Job #: B2A1135
Report Date: 2012/07/23

Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		OA9382				
Sampling Date		2012/06/26 14:30				
COC Number		12207				
	Units	**S PRAGUE #3- RUN 3 / 1250**	**RDL**	**ug/m3**	**DL (ug/m3)**	**QC Batch**
2,2,4-Trimethylpentane	ppbv	355	92	1660	430	2915010
Carbon Disulfide	ppbv	<600	600	<1860	1860	2915010
Propene	ppbv	<13000	13000	<22200	22200	2915010
Vinyl Acetate	ppbv	<1400	1400	<4860	4860	2915010
Vinyl Bromide	ppbv	<92	92	<402	402	2915010
Dichlorodifluoromethane (FREON 12)	ppbv	<92	92	<455	455	2915010
1,2-Dichlorotetrafluoroethane	ppbv	<78	78	<547	547	2915010
Chloromethane	ppbv	<180	180	<380	380	2915010
Vinyl Chloride	ppbv	<83	83	<212	212	2915010
Chloroethane	ppbv	<140	140	<364	364	2915010
1,3-Butadiene	ppbv	<230	230	<509	509	2915010
Trichlorofluoromethane (FREON 11)	ppbv	<92	92	<517	517	2915010
Trichlorotrifluoroethane	ppbv	<69	69	<529	529	2915010
Ethanol (ethyl alcohol)	ppbv	<1100	1100	<1990	1990	2915010
2-propanol	ppbv	<1400	1400	<3390	3390	2915010
2-Propanone	ppbv	<370	370	<874	874	2915010
Methyl Ethyl Ketone (2-Butanone)	ppbv	<1400	1400	<4070	4070	2915010
Methyl Isobutyl Ketone	ppbv	<1500	1500	<6030	6030	2915010
Methyl Butyl Ketone (2-Hexanone)	ppbv	<920	920	<3770	3770	2915010
Methyl t-butyl ether (MTBE)	ppbv	<92	92	<332	332	2915010
Ethyl Acetate	ppbv	<1000	1000	<3650	3650	2915010
1,1-Dichloroethylene	ppbv	<120	120	<456	456	2915010
cis-1,2-Dichloroethylene	ppbv	<87	87	<347	347	2915010
trans-1,2-Dichloroethylene	ppbv	<92	92	<365	365	2915010
Methylene Chloride(Dichloromethane)	ppbv	<510	510	<1760	1760	2915010
Chloroform	ppbv	<69	69	<337	337	2915010
Carbon Tetrachloride	ppbv	<140	140	<868	868	2915010
1,1-Dichloroethane	ppbv	<92	92	<372	372	2915010
1,2-Dichloroethane	ppbv	<92	92	<372	372	2915010
Ethylene Dibromide	ppbv	<78	78	<601	601	2915010
1,1,1-Trichloroethane	ppbv	<140	140	<753	753	2915010
1,1,2-Trichloroethane	ppbv	<69	69	<376	376	2915010

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B2A1135
Report Date: 2012/07/23

Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		OA9382				
Sampling Date		2012/06/26 14:30				
COC Number		12207				
	Units	**S PRAGUE #3- RUN 3 / 1250**	**RDL**	**ug/m3**	**DL (ug/m3)**	**QC Batch**
1,1,2,2-Tetrachloroethane	ppbv	<92	92	<632	632	2915010
cis-1,3-Dichloropropene	ppbv	<83	83	<376	376	2915010
trans-1,3-Dichloropropene	ppbv	<78	78	<355	355	2915010
1,2-Dichloropropane	ppbv	<180	180	<850	850	2915010
Bromomethane	ppbv	<83	83	<322	322	2915010
Bromoform	ppbv	<92	92	<951	951	2915010
Bromodichloromethane	ppbv	<92	92	<616	616	2915010
Dibromochloromethane	ppbv	<92	92	<784	784	2915010
Heptane	ppbv	9410	140	38600	566	2915010
Trichloroethylene	ppbv	<140	140	<742	742	2915010
Tetrachloroethylene	ppbv	<92	92	<624	624	2915010
Benzene	ppbv	3290	83	10500	265	2915010
Toluene	ppbv	9090	92	34200	346	2915010
Ethylbenzene	ppbv	1910	92	8310	399	2915010
p+m-Xylene	ppbv	5990	170	26000	739	2915010
o-Xylene	ppbv	2400	92	10400	399	2915010
Styrene	ppbv	264	92	1130	392	2915010
1,3,5-Trimethylbenzene	ppbv	908	230	4460	1130	2915010
1,2,4-Trimethylbenzene	ppbv	3000	230	14700	1130	2915010
4-ethyltoluene	ppbv	<1000	1000	<4970	4970	2915010
Chlorobenzene	ppbv	<92	92	<424	424	2915010
Benzyl chloride	ppbv	<460	460	<2380	2380	2915010
1,3-Dichlorobenzene	ppbv	<180	180	<1110	1110	2915010
1,4-Dichlorobenzene	ppbv	<180	180	<1110	1110	2915010
1,2-Dichlorobenzene	ppbv	<180	180	<1110	1110	2915010
1,2,4-Trichlorobenzene	ppbv	<920	920	<6830	6830	2915010
Hexachlorobutadiene	ppbv	<1400	1400	<14700	14700	2915010
Hexane	ppbv	11200	140	39600	486	2915010
Cyclohexane	ppbv	4360	92	15000	317	2915010
Tetrahydrofuran	ppbv	<180	180	<543	543	2915010
1,4-Dioxane	ppbv	<920	920	<3320	3320	2915010
Xylene (Total)	ppbv	8400	280	36500	1200	2915010
Surrogate Recovery (%)						
Bromochloromethane	%	85	N/A	N/A	N/A	2915010

N/A = Not Applicable
QC Batch = Quality Control Batch

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Maxxam Job #: B2A1135
Report Date: 2012/07/23

Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		OA9382				
Sampling Date		2012/06/26 14:30				
COC Number		12207				
	Units	**S PRAGUE #3- RUN 3 / 1250**	**RDL**	**ug/m3**	**DL (ug/m3)**	**QC Batch**
D5-Chlorobenzene	%	81	N/A	N/A	N/A	2915010
Difluorobenzene	%	85	N/A	N/A	N/A	2915010

N/A = Not Applicable
QC Batch = Quality Control Batch

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Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		OA9383				
Sampling Date		2012/06/26 12:00				
COC Number		12207				
	Units	**S PRAGUE #3 - RUN 2 (VESSEL) / 7785**	**RDL**	**ug/m3**	**DL (ug/m3)**	**QC Batch**
2,2,4-Trimethylpentane	ppbv	720	220	3360	1030	2915010
Carbon Disulfide	ppbv	<1400	1400	<4450	4450	2915010
Propene	ppbv	<25000	25000	<43500	43500	2915010
Vinyl Acetate	ppbv	<3200	3200	<11200	11200	2915010
Vinyl Bromide	ppbv	<220	220	<962	962	2915010
Dichlorodifluoromethane (FREON 12)	ppbv	<220	220	<1090	1090	2915010
1,2-Dichlorotetrafluoroethane	ppbv	<190	190	<1310	1310	2915010
Chloromethane	ppbv	<330	330	<681	681	2915010
Vinyl Chloride	ppbv	<200	200	<506	506	2915010
Chloroethane	ppbv	<330	330	<871	871	2915010
1,3-Butadiene	ppbv	<550	550	<1220	1220	2915010
Trichlorofluoromethane (FREON 11)	ppbv	<220	220	<1240	1240	2915010
Trichlorotrifluoroethane	ppbv	<170	170	<1260	1260	2915010
Ethanol (ethyl alcohol)	ppbv	<2500	2500	<4770	4770	2915010
2-propanol	ppbv	<3300	3300	<8110	8110	2915010
2-Propanone	ppbv	<880	880	<2090	2090	2915010
Methyl Ethyl Ketone (2-Butanone)	ppbv	<3300	3300	<9730	9730	2915010
Methyl Isobutyl Ketone	ppbv	<3500	3500	<14400	14400	2915010
Methyl Butyl Ketone (2-Hexanone)	ppbv	<2200	2200	<9010	9010	2915010
Methyl t-butyl ether (MTBE)	ppbv	<220	220	<793	793	2915010
Ethyl Acetate	ppbv	<2400	2400	<8720	8720	2915010
1,1-Dichloroethylene	ppbv	<280	280	<1090	1090	2915010
cis-1,2-Dichloroethylene	ppbv	<210	210	<829	829	2915010
trans-1,2-Dichloroethylene	ppbv	<220	220	<872	872	2915010
Methylene Chloride(Dichloromethane)	ppbv	<1300	1300	<4590	4590	2915010
Chloroform	ppbv	<170	170	<806	806	2915010
Carbon Tetrachloride	ppbv	<330	330	<2080	2080	2915010
1,1-Dichloroethane	ppbv	<220	220	<890	890	2915010
1,2-Dichloroethane	ppbv	<220	220	<890	890	2915010
Ethylene Dibromide	ppbv	<190	190	<1440	1440	2915010
1,1,1-Trichloroethane	ppbv	<330	330	<1800	1800	2915010

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

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Maxxam Job #: B2A1135
Report Date: 2012/07/23

Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		OA9383				
Sampling Date		2012/06/26 12:00				
COC Number		12207				
	Units	**S PRAGUE #3 - RUN 2 (VESSEL) / 7785**	**RDL**	**ug/m3**	**DL (ug/m3)**	**QC Batch**
1,1,2-Trichloroethane	ppbv	<170	170	<900	900	2915010
1,1,2,2-Tetrachloroethane	ppbv	<220	220	<1510	1510	2915010
cis-1,3-Dichloropropene	ppbv	<200	200	<899	899	2915010
trans-1,3-Dichloropropene	ppbv	<190	190	<849	849	2915010
1,2-Dichloropropane	ppbv	<440	440	<2030	2030	2915010
Bromomethane	ppbv	<200	200	<769	769	2915010
Bromoform	ppbv	<220	220	<2270	2270	2915010
Bromodichloromethane	ppbv	<220	220	<1470	1470	2915010
Dibromochloromethane	ppbv	<220	220	<1870	1870	2915010
Heptane	ppbv	37100	330	152000	1350	2915010
Trichloroethylene	ppbv	<330	330	<1770	1770	2915010
Tetrachloroethylene	ppbv	<220	220	<1490	1490	2915010
Benzene	ppbv	11400	200	36500	633	2915010
Toluene	ppbv	42000	220	158000	828	2915010
Ethylbenzene	ppbv	11600	220	50200	955	2915010
p+m-Xylene	ppbv	37000	410	161000	1770	2915010
o-Xylene	ppbv	14900	220	64800	955	2915010
Styrene	ppbv	524	220	2230	937	2915010
1,3,5-Trimethylbenzene	ppbv	4860	550	23900	2700	2915010
1,2,4-Trimethylbenzene	ppbv	15000	550	73900	2700	2915010
4-ethyltoluene	ppbv	4500	2400	22100	11900	2915010
Chlorobenzene	ppbv	<220	220	<1010	1010	2915010
Benzyl chloride	ppbv	<1100	1100	<5690	5690	2915010
1,3-Dichlorobenzene	ppbv	<440	440	<2650	2650	2915010
1,4-Dichlorobenzene	ppbv	<440	440	<2650	2650	2915010
1,2-Dichlorobenzene	ppbv	<440	440	<2650	2650	2915010
1,2,4-Trichlorobenzene	ppbv	<2200	2200	<16300	16300	2915010
Hexachlorobutadiene	ppbv	<3300	3300	<35200	35200	2915010
Hexane	ppbv	28100	330	99000	1160	2915010
Cyclohexane	ppbv	16500	220	56900	757	2915010
Tetrahydrofuran	ppbv	<440	440	<1300	1300	2915010
1,4-Dioxane	ppbv	<2200	2200	<7930	7930	2915010

QC Batch = Quality Control Batch

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Maxxam Job #: B2A1135
Report Date: 2012/07/23

Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

VOLATILE ORGANICS BY GC/MS (AIR)

Maxxam ID		OA9383				
Sampling Date		2012/06/26 12:00				
COC Number		12207				
	Units	**S PRAGUE #3 - RUN 2 (VESSEL) / 7785**	**RDL**	**ug/m3**	**DL (ug/m3)**	**QC Batch**
Xylene (Total)	ppbv	51900	660	225000	2870	2915010
Surrogate Recovery (%)						
Bromochloromethane	%	85	N/A	N/A	N/A	2915010
D5-Chlorobenzene	%	81	N/A	N/A	N/A	2915010
Difluorobenzene	%	86	N/A	N/A	N/A	2915010

N/A = Not Applicable
QC Batch = Quality Control Batch

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Maxxam Job #: B2A1135
Report Date: 2012/07/23

Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

Test Summary

Maxxam ID OA9382
Sample ID S PRAGUE #3- RUN 3 / 1250
Matrix AIR

Collected 2012/06/26
Shipped
Received 2012/07/06

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2914994	N/A	2012/07/19	Yao Liang Sun
Volatile Organics in Air (TO-15)	GC/MS	2915010	N/A	2012/07/19	Yao Liang Sun

Maxxam ID OA9383
Sample ID S PRAGUE #3 - RUN 2 (VESSEL) / 7785
Matrix AIR

Collected 2012/06/26
Shipped
Received 2012/07/06

Test Description	Instrumentation	Batch	Extracted	Analyzed	Analyst
Canister Pressure (TO-15)	PRES	2914994	N/A	2012/07/19	Yao Liang Sun
Volatile Organics in Air (TO-15)	GC/MS	2915010	N/A	2012/07/19	Yao Liang Sun

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Maxxam Job #: B2A1135
Report Date: 2012/07/23

Eastmount Environmental Services
Client Project #: 11-138
Site Location: SPRAGUE #3

GENERAL COMMENTS

WS# 2915010
DL was raised in the Blank due to background contaimination.

Sample OA9382-01: Canister was pressurized from -2.9psig to 12psig for a 2.3x pressure dilution, a further 200x dilution was run for a 460x final dilution. DLs adjusted accordingly. DLs raised further for Propene and Vinyl Acetate due to matrix interference and for Chloromethane, Carbon Disulfide, and Methylene Chloride due to possible background.

Sample OA9383-01: Canister was pressurized from -3.6psig to 10.2psig for a 2.2x pressure dilution, a further 500x dilution was run for a 1100x final dilution. DLs adjusted accordingly. DLs raised further for Propene and Vinyl Acetate due to matrix interference and for Carbon Disulfide, and Methylene Chloride due to possible background.

Results relate only to the items tested.

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Eastmount Environmental Services
Attention: Anthony Stratton
Client Project #: 11-138
P.O. #:
Site Location: SPRAGUE #3

Quality Assurance Report

Maxxam Job Number: GB2A1135

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2915010 LSY	Spiked Blank	Bromochloromethane	2012/07/19		99	%	60 - 140
		D5-Chlorobenzene	2012/07/19		102	%	60 - 140
		Difluorobenzene	2012/07/19		101	%	60 - 140
		2,2,4-Trimethylpentane	2012/07/19		88	%	70 - 130
		Carbon Disulfide	2012/07/19		88	%	70 - 130
		Propene	2012/07/19		86	%	70 - 130
		Vinyl Acetate	2012/07/19		94	%	70 - 130
		Vinyl Bromide	2012/07/19		86	%	70 - 130
		Dichlorodifluoromethane (FREON 12)	2012/07/19		89	%	70 - 130
		1,2-Dichlorotetrafluoroethane	2012/07/19		104	%	70 - 130
		Chloromethane	2012/07/19		90	%	70 - 130
		Vinyl Chloride	2012/07/19		91	%	70 - 130
		Chloroethane	2012/07/19		89	%	70 - 130
		1,3-Butadiene	2012/07/19		90	%	70 - 130
		Trichlorofluoromethane (FREON 11)	2012/07/19		90	%	70 - 130
		Trichlorotrifluoroethane	2012/07/19		91	%	70 - 130
		Ethanol (ethyl alcohol)	2012/07/19		79	%	70 - 130
		2-propanol	2012/07/19		99	%	70 - 130
		2-Propanone	2012/07/19		94	%	70 - 130
		Methyl Ethyl Ketone (2-Butanone)	2012/07/19		92	%	70 - 130
		Methyl Isobutyl Ketone	2012/07/19		96	%	70 - 130
		Methyl Butyl Ketone (2-Hexanone)	2012/07/19		99	%	70 - 130
		Methyl t-butyl ether (MTBE)	2012/07/19		93	%	70 - 130
		Ethyl Acetate	2012/07/19		98	%	70 - 130
		1,1-Dichloroethylene	2012/07/19		92	%	70 - 130
		cis-1,2-Dichloroethylene	2012/07/19		92	%	70 - 130
		trans-1,2-Dichloroethylene	2012/07/19		90	%	70 - 130
		Methylene Chloride(Dichloromethane)	2012/07/19		81	%	70 - 130
		Chloroform	2012/07/19		90	%	70 - 130
		Carbon Tetrachloride	2012/07/19		92	%	70 - 130
		1,1-Dichloroethane	2012/07/19		90	%	70 - 130
		1,2-Dichloroethane	2012/07/19		91	%	70 - 130
		Ethylene Dibromide	2012/07/19		90	%	70 - 130
		1,1,1-Trichloroethane	2012/07/19		89	%	70 - 130
		1,1,2-Trichloroethane	2012/07/19		92	%	70 - 130
		1,1,2,2-Tetrachloroethane	2012/07/19		90	%	70 - 130
		cis-1,3-Dichloropropene	2012/07/19		91	%	70 - 130
		trans-1,3-Dichloropropene	2012/07/19		93	%	70 - 130
		1,2-Dichloropropane	2012/07/19		90	%	70 - 130
		Bromomethane	2012/07/19		90	%	70 - 130
		Bromoform	2012/07/19		98	%	70 - 130
		Bromodichloromethane	2012/07/19		93	%	70 - 130
		Dibromochloromethane	2012/07/19		95	%	70 - 130
		Heptane	2012/07/19		89	%	70 - 130
		Trichloroethylene	2012/07/19		88	%	70 - 130
		Tetrachloroethylene	2012/07/19		90	%	70 - 130
		Benzene	2012/07/19		90	%	70 - 130
		Toluene	2012/07/19		90	%	70 - 130
		Ethylbenzene	2012/07/19		93	%	70 - 130
		p+m-Xylene	2012/07/19		91	%	70 - 130
		o-Xylene	2012/07/19		91	%	70 - 130
		Styrene	2012/07/19		69 (1)	%	70 - 130
		1,3,5-Trimethylbenzene	2012/07/19		86	%	70 - 130
		1,2,4-Trimethylbenzene	2012/07/19		82	%	70 - 130
		4-ethyltoluene	2012/07/19		88	%	70 - 130

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Eastmount Environmental Services
Attention: Anthony Stratton
Client Project #: 11-138
P.O. #:
Site Location: SPRAGUE #3

Quality Assurance Report (Continued)

Maxxam Job Number: GB2A1135

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2915010 LSY	Spiked Blank	Chlorobenzene	2012/07/19		90	%	70 - 130
		Benzyl chloride	2012/07/19		81	%	70 - 130
		1,3-Dichlorobenzene	2012/07/19		81	%	70 - 130
		1,4-Dichlorobenzene	2012/07/19		81	%	70 - 130
		1,2-Dichlorobenzene	2012/07/19		77	%	70 - 130
		1,2,4-Trichlorobenzene	2012/07/19		95	%	70 - 130
		Hexachlorobutadiene	2012/07/19		96	%	70 - 130
		Hexane	2012/07/19		91	%	70 - 130
		Cyclohexane	2012/07/19		88	%	70 - 130
		Tetrahydrofuran	2012/07/19		94	%	70 - 130
		1,4-Dioxane	2012/07/19		92	%	70 - 130
		Xylene (Total)	2012/07/19		91	%	70 - 130
	Method Blank	Bromochloromethane	2012/07/19		90	%	60 - 140
		D5-Chlorobenzene	2012/07/19		92	%	60 - 140
		Difluorobenzene	2012/07/19		92	%	60 - 140
		2,2,4-Trimethylpentane	2012/07/19	<0.20		ppbv	
		Carbon Disulfide	2012/07/19	<0.50		ppbv	
		Propene	2012/07/19	<0.30		ppbv	
		Vinyl Acetate	2012/07/19	<0.20		ppbv	
		Vinyl Bromide	2012/07/19	<0.20		ppbv	
		Dichlorodifluoromethane (FREON 12)	2012/07/19	<0.20		ppbv	
		1,2-Dichlorotetrafluoroethane	2012/07/19	<0.17		ppbv	
		Chloromethane	2012/07/19	<0.70		ppbv	
		Vinyl Chloride	2012/07/19	<0.18		ppbv	
		Chloroethane	2012/07/19	<0.30		ppbv	
		1,3-Butadiene	2012/07/19	<0.50		ppbv	
		Trichlorofluoromethane (FREON 11)	2012/07/19	<0.20		ppbv	
		Trichlorotrifluoroethane	2012/07/19	<0.15		ppbv	
		Ethanol (ethyl alcohol)	2012/07/19	<2.3		ppbv	
		2-propanol	2012/07/19	<3.0		ppbv	
		2-Propanone	2012/07/19	<0.80		ppbv	
		Methyl Ethyl Ketone (2-Butanone)	2012/07/19	<3.0		ppbv	
		Methyl Isobutyl Ketone	2012/07/19	<3.2		ppbv	
		Methyl Butyl Ketone (2-Hexanone)	2012/07/19	<2.0		ppbv	
		Methyl t-butyl ether (MTBE)	2012/07/19	<0.20		ppbv	
		Ethyl Acetate	2012/07/19	<2.2		ppbv	
		1,1-Dichloroethylene	2012/07/19	<0.25		ppbv	
		cis-1,2-Dichloroethylene	2012/07/19	<0.19		ppbv	
		trans-1,2-Dichloroethylene	2012/07/19	<0.20		ppbv	
		Methylene Chloride(Dichloromethane)	2012/07/19	<0.80		ppbv	
		Chloroform	2012/07/19	<0.15		ppbv	
		Carbon Tetrachloride	2012/07/19	<0.30		ppbv	
		1,1-Dichloroethane	2012/07/19	<0.20		ppbv	
		1,2-Dichloroethane	2012/07/19	<0.20		ppbv	
		Ethylene Dibromide	2012/07/19	<0.17		ppbv	
		1,1,1-Trichloroethane	2012/07/19	<0.30		ppbv	
		1,1,2-Trichloroethane	2012/07/19	<0.15		ppbv	
		1,1,2,2-Tetrachloroethane	2012/07/19	<0.20		ppbv	
		cis-1,3-Dichloropropene	2012/07/19	<0.18		ppbv	
		trans-1,3-Dichloropropene	2012/07/19	<0.17		ppbv	
		1,2-Dichloropropane	2012/07/19	<0.40		ppbv	
		Bromomethane	2012/07/19	<0.18		ppbv	
		Bromoform	2012/07/19	<0.20		ppbv	
		Bromodichloromethane	2012/07/19	<0.20		ppbv	
		Dibromochloromethane	2012/07/19	<0.20		ppbv	

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Eastmount Environmental Services
Attention: Anthony Stratton
Client Project #: 11-138
P.O. #:
Site Location: SPRAGUE #3

Quality Assurance Report (Continued)

Maxxam Job Number: GB2A1135

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2915010 LSY	Method Blank	Heptane	2012/07/19	<0.30		ppbv	
		Trichloroethylene	2012/07/19	<0.30		ppbv	
		Tetrachloroethylene	2012/07/19	<0.20		ppbv	
		Benzene	2012/07/19	<0.18		ppbv	
		Toluene	2012/07/19	<0.20		ppbv	
		Ethylbenzene	2012/07/19	<0.20		ppbv	
		p+m-Xylene	2012/07/19	<0.37		ppbv	
		o-Xylene	2012/07/19	<0.20		ppbv	
		Styrene	2012/07/19	<0.20		ppbv	
		1,3,5-Trimethylbenzene	2012/07/19	<0.50		ppbv	
		1,2,4-Trimethylbenzene	2012/07/19	<0.50		ppbv	
		4-ethyltoluene	2012/07/19	<2.2		ppbv	
		Chlorobenzene	2012/07/19	<0.20		ppbv	
		Benzyl chloride	2012/07/19	<1.0		ppbv	
		1,3-Dichlorobenzene	2012/07/19	<0.40		ppbv	
		1,4-Dichlorobenzene	2012/07/19	<0.40		ppbv	
		1,2-Dichlorobenzene	2012/07/19	<0.40		ppbv	
		1,2,4-Trichlorobenzene	2012/07/19	<2.0		ppbv	
		Hexachlorobutadiene	2012/07/19	<3.0		ppbv	
		Hexane	2012/07/19	<0.30		ppbv	
		Cyclohexane	2012/07/19	<0.20		ppbv	
		Tetrahydrofuran	2012/07/19	<0.40		ppbv	
		1,4-Dioxane	2012/07/19	<2.0		ppbv	
		Xylene (Total)	2012/07/19	<0.60		ppbv	
	RPD - Sample/Sample Dup	2,2,4-Trimethylpentane	2012/07/19	NC		%	25
		Carbon Disulfide	2012/07/19	NC		%	25
		Propene	2012/07/19	NC		%	25
		Vinyl Acetate	2012/07/19	NC		%	25
		Vinyl Bromide	2012/07/19	NC		%	25
		Dichlorodifluoromethane (FREON 12)	2012/07/19	NC		%	25
		1,2-Dichlorotetrafluoroethane	2012/07/19	NC		%	25
		Chloromethane	2012/07/19	NC		%	25
		Vinyl Chloride	2012/07/19	NC		%	25
		Chloroethane	2012/07/19	NC		%	25
		1,3-Butadiene	2012/07/19	NC		%	25
		Trichlorofluoromethane (FREON 11)	2012/07/19	NC		%	25
		Trichlorotrifluoroethane	2012/07/19	NC		%	25
		Ethanol (ethyl alcohol)	2012/07/19	NC		%	25
		2-propanol	2012/07/19	NC		%	25
		2-Propanone	2012/07/19	2.0		%	25
		Methyl Ethyl Ketone (2-Butanone)	2012/07/19	NC		%	25
		Methyl Isobutyl Ketone	2012/07/19	NC		%	25
		Methyl Butyl Ketone (2-Hexanone)	2012/07/19	NC		%	25
		Methyl t-butyl ether (MTBE)	2012/07/19	NC		%	25
		Ethyl Acetate	2012/07/19	NC		%	25
		1,1-Dichloroethylene	2012/07/19	NC		%	25
		cis-1,2-Dichloroethylene	2012/07/19	NC		%	25
		trans-1,2-Dichloroethylene	2012/07/19	NC		%	25
		Methylene Chloride(Dichloromethane)	2012/07/19	NC		%	25
		Chloroform	2012/07/19	NC		%	25
		Carbon Tetrachloride	2012/07/19	NC		%	25
		1,1-Dichloroethane	2012/07/19	NC		%	25
		1,2-Dichloroethane	2012/07/19	NC		%	25

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Eastmount Environmental Services
Attention: Anthony Stratton
Client Project #: 11-138
P.O. #:
Site Location: SPRAGUE #3

Quality Assurance Report (Continued)

Maxxam Job Number: GB2A1135

QA/QC Batch Num Init	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	%Recovery	Units	QC Limits
2915010 LSY	RPD - Sample/Sample Dup	Ethylene Dibromide	2012/07/19	NC		%	25
		1,1,1-Trichloroethane	2012/07/19	NC		%	25
		1,1,2-Trichloroethane	2012/07/19	NC		%	25
		1,1,2,2-Tetrachloroethane	2012/07/19	NC		%	25
		cis-1,3-Dichloropropene	2012/07/19	NC		%	25
		trans-1,3-Dichloropropene	2012/07/19	NC		%	25
		1,2-Dichloropropane	2012/07/19	NC		%	25
		Bromomethane	2012/07/19	NC		%	25
		Bromoform	2012/07/19	NC		%	25
		Bromodichloromethane	2012/07/19	NC		%	25
		Dibromochloromethane	2012/07/19	NC		%	25
		Heptane	2012/07/19	2.6		%	25
		Trichloroethylene	2012/07/19	NC		%	25
		Tetrachloroethylene	2012/07/19	NC		%	25
		Benzene	2012/07/19	NC		%	25
		Toluene	2012/07/19	2.5		%	25
		Ethylbenzene	2012/07/19	NC		%	25
		p+m-Xylene	2012/07/19	0.2		%	25
		o-Xylene	2012/07/19	NC		%	25
		Styrene	2012/07/19	NC		%	25
		1,3,5-Trimethylbenzene	2012/07/19	NC		%	25
		1,2,4-Trimethylbenzene	2012/07/19	NC		%	25
		4-ethyltoluene	2012/07/19	NC		%	25
		Chlorobenzene	2012/07/19	NC		%	25
		Benzyl chloride	2012/07/19	NC		%	25
		1,3-Dichlorobenzene	2012/07/19	NC		%	25
		1,4-Dichlorobenzene	2012/07/19	NC		%	25
		1,2-Dichlorobenzene	2012/07/19	NC		%	25
		1,2,4-Trichlorobenzene	2012/07/19	NC		%	25
		Hexachlorobutadiene	2012/07/19	NC		%	25
		Hexane	2012/07/19	1.6		%	25
		Cyclohexane	2012/07/19	0.4		%	25
		Tetrahydrofuran	2012/07/19	NC		%	25
		1,4-Dioxane	2012/07/19	NC		%	25
		Xylene (Total)	2012/07/19	0.6		%	25

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.
(1) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

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Volatile Organics Analysis Data Sheets
Tentatively Identified Compounds

SAMPLE#: Method Blank

Field ID#: Method Blank

Number of TICs found: 0

Concentration Units
ppbv

	CAS #	Compound Name	RT	Est. Conc.	Match %
1.		No compounds found			
2.					
3.					
4.					
5.					
6.					
7.					
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					
16.					
17.					
18.					
19.					
20.					

SAMPLE#: OA9383

S Prague#3-Run 2 (vessel)

Component	MW	ppbv	ug/m^3
Butane, 2-methyl-	72	30000	88307
Pentane, 2-methyl-	86	40000	140638
Hexane, 3-methyl-	100	15000	61325
Heptane, 2-methyl-	114	20000	93213
Heptane, 3-methyl-	114	13000	60589
Octane	114	41000	191087
Nonane	128	38000	198855