

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-197

GC/MS Volatiles

Lot-Sample #...: A4H100202-007 Work Order #...: GMTQG1AA Matrix.....: WG
 Date Sampled...: 08/09/04 16:40 Date Received...: 08/10/04
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #...: 4229439
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-197

GC/MS Volatiles

Lot-Sample #...: A4H100202-007 Work Order #...: GMTQG1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	77	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-198

GC/MS Volatiles

Lot-Sample #...: A4H100202-008 Work Order #...: GMTQJ1AA Matrix.....: WG
 Date Sampled...: 08/09/04 16:37 Date Received...: 08/10/04
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #...: 4229439
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	26	1.0	ug/L	0.21
trans-1,2-Dichloroethene	2.8	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	0.93 J	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-198

GC/MS Volatiles

Lot-Sample #...: A4H100202-008 Work Order #...: GMTQJ1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	25	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	0.68 J	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-199

GC/MS Volatiles

Lot-Sample #...: A4H100202-009 Work Order #...: GMTQK1AA Matrix.....: WG
 Date Sampled...: 08/09/04 18:00 Date Received...: 08/10/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #...: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	2.0 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	7.3	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	0.42 J	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	2.7	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	0.44 J	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	0.57 J	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-199

GC/MS Volatiles

Lot-Sample #...: A4H100202-009 Work Order #...: GMTQK1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.30 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	108	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-200

GC/MS Volatiles

Lot-Sample #...: A4H100202-010 Work Order #...: GMTQM1AA Matrix.....: WG
 Date Sampled...: 08/09/04 18:35 Date Received...: 08/10/04
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #...: 4229439
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-200

GC/MS Volatiles

Lot-Sample #....: A4H100202-010 Work Order #....: GMTQM1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.35 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-201

GC/MS Volatiles

Lot-Sample #...: A4H100202-011 Work Order #...: GMTQN1AA Matrix.....: WQ
 Date Sampled...: 08/09/04 Date Received...: 08/10/04
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #...: 4229439
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	0.86 J,B	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-201

GC/MS Volatiles

Lot-Sample #...: A4H100202-011 Work Order #...: GMTQN1AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	77	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H100202
 MB Lot-Sample #: A4H140000-028

Work Order #...: GM57D1AA
 Prep Date.....: 08/13/04
 Prep Batch #...: 4227028
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER
 Final Wgt/Vol...: 5 mL

Analysis Date...: 08/13/04
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	1.1 J	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H100202

Work Order #...: GM57D1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
1,2,4-Trichloro-benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	90	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	77	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H100202
 MB Lot-Sample #: A4H160000-361

Work Order #...: GM8F01AA
 Prep Date.....: 08/16/04
 Prep Batch #...: 4229361
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER
 Final Wgt/Vol...: 5 mL

Analysis Date...: 08/16/04
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	0.88 J	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H100202

Work Order #...: GM8F01AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
1,2-Dichloroethane-d4	83	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	82	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H100202
 MB Lot-Sample #: A4H160000-439

Work Order #...: GM8TQ1AA

Matrix.....: WATER

Analysis Date...: 08/15/04
 Dilution Factor: 1

Prep Date.....: 08/15/04

Final Wgt/Vol...: 5 mL

Prep Batch #...: 4229439

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	0.91 J	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H100202

Work Order #...: GM8TQ1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
		<u>PERCENT</u>	<u>RECOVERY</u>	
<u>SURROGATE</u>	<u>RECOVERY</u>		<u>LIMITS</u>	
Dibromofluoromethane	97		(73 - 122)	
1,2-Dichloroethane-d4	88		(61 - 128)	
Toluene-d8	95		(76 - 110)	
4-Bromofluorobenzene	79		(74 - 116)	

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H100202
 MB Lot-Sample #: A4H180000-527
 Analysis Date...: 08/17/04
 Dilution Factor: 1

Work Order #...: GNFEM1AA
 Prep Date.....: 08/17/04
 Prep Batch #...: 4231527
 Initial Wgt/Vol: 5 mL

Matrix.....: WATER
 Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	0.38 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H100202

Work Order #...: GNFEM1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Dibromofluoromethane	99	(73 - 122)		
1,2-Dichloroethane-d4	100	(61 - 128)		
Toluene-d8	95	(76 - 110)		
4-Bromofluorobenzene	102	(74 - 116)		

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GM57D1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H140000-028 GM57D1AD-LCSD
 Prep Date.....: 08/13/04 Analysis Date...: 08/13/04
 Prep Batch #...: 4227028
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	9.3	ug/L	93		SW846 8260B
	10	10	ug/L	102	8.4	SW846 8260B
Chlorobenzene	10	9.5	ug/L	95		SW846 8260B
	10	11	ug/L	106	11	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	105	3.2	SW846 8260B
Toluene	10	10	ug/L	100		SW846 8260B
	10	11	ug/L	111	10	SW846 8260B
Trichloroethene	10	9.6	ug/L	96		SW846 8260B
	10	10	ug/L	101	5.0	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	91	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
	91	(61 - 128)
Toluene-d8	94	(76 - 110)
	101	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)
	92	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4H100202 Work Order #....: GM57D1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H140000-028 GM57D1AD-LCSD
 Prep Date.....: 08/13/04 Analysis Date...: 08/13/04
 Prep Batch #....: 4227028
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD	RPD	METHOD
	<u>RECOVERY</u>	<u>LIMITS</u>		<u>LIMITS</u>	
Benzene	93	(80 - 116)			SW846 8260B
	102	(80 - 116)	8.4	(0-20)	SW846 8260B
Chlorobenzene	95	(76 - 117)			SW846 8260B
	106	(76 - 117)	11	(0-20)	SW846 8260B
1,1-Dichloroethene	102	(63 - 130)			SW846 8260B
	105	(63 - 130)	3.2	(0-20)	SW846 8260B
Toluene	100	(74 - 119)			SW846 8260B
	111	(74 - 119)	10	(0-20)	SW846 8260B
Trichloroethene	96	(75 - 122)			SW846 8260B
	101	(75 - 122)	5.0	(0-20)	SW846 8260B

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	91	(73 - 122)
1,2-Dichloroethane-d4	85	(61 - 128)
	91	(61 - 128)
Toluene-d8	94	(76 - 110)
	101	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)
	92	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4H100202 Work Order #....: GM8F01AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H160000-361 GM8F01AD-LCSD
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #....: 4229361
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	9.4	ug/L	94		SW846 8260B
	10	9.9	ug/L	99	5.4	SW846 8260B
Chlorobenzene	10	9.5	ug/L	95		SW846 8260B
	10	10	ug/L	103	7.8	SW846 8260B
1,1-Dichloroethene	10	9.8	ug/L	98		SW846 8260B
	10	9.9	ug/L	99	0.52	SW846 8260B
Toluene	10	9.9	ug/L	99		SW846 8260B
	10	11	ug/L	107	8.0	SW846 8260B
Trichloroethene	10	9.7	ug/L	97		SW846 8260B
	10	9.8	ug/L	98	1.4	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
	90	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
	89	(61 - 128)
Toluene-d8	95	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)
	93	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GM8F01AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H160000-361 GM8F01AD-LCSD
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #...: 4229361
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	94	(80 - 116)			SW846 8260B
	99	(80 - 116)	5.4	(0-20)	SW846 8260B
Chlorobenzene	95	(76 - 117)			SW846 8260B
	103	(76 - 117)	7.8	(0-20)	SW846 8260B
1,1-Dichloroethene	98	(63 - 130)			SW846 8260B
	99	(63 - 130)	0.52	(0-20)	SW846 8260B
Toluene	99	(74 - 119)			SW846 8260B
	107	(74 - 119)	8.0	(0-20)	SW846 8260B
Trichloroethene	97	(75 - 122)			SW846 8260B
	98	(75 - 122)	1.4	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
	90	(73 - 122)
1,2-Dichloroethane-d4	88	(61 - 128)
	89	(61 - 128)
Toluene-d8	95	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	90	(74 - 116)
	93	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4H100202 Work Order #....: GM8TQ1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H160000-439 GM8TQ1AD-LCSD
 Prep Date.....: 08/15/04 Analysis Date...: 08/15/04
 Prep Batch #....: 4229439
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	9.9	ug/L	99		SW846 8260B
	10	9.9	ug/L	99	0.16	SW846 8260B
Chlorobenzene	10	10	ug/L	104		SW846 8260B
	10	10	ug/L	105	1.1	SW846 8260B
1,1-Dichloroethene	10	11	ug/L	107		SW846 8260B
	10	11	ug/L	108	0.99	SW846 8260B
Toluene	10	11	ug/L	108		SW846 8260B
	10	11	ug/L	107	0.62	SW846 8260B
Trichloroethene	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	100	1.3	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	86	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
	83	(61 - 128)
Toluene-d8	97	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)
	92	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GM8TQ1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H160000-439 GM8TQ1AD-LCSD
 Prep Date.....: 08/15/04 Analysis Date...: 08/15/04
 Prep Batch #...: 4229439
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	99	(80 - 116)			SW846 8260B
	99	(80 - 116)	0.16	(0-20)	SW846 8260B
Chlorobenzene	104	(76 - 117)			SW846 8260B
	105	(76 - 117)	1.1	(0-20)	SW846 8260B
1,1-Dichloroethene	107	(63 - 130)			SW846 8260B
	108	(63 - 130)	0.99	(0-20)	SW846 8260B
Toluene	108	(74 - 119)			SW846 8260B
	107	(74 - 119)	0.62	(0-20)	SW846 8260B
Trichloroethene	101	(75 - 122)			SW846 8260B
	100	(75 - 122)	1.3	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	86	(73 - 122)
1,2-Dichloroethane-d4	86	(61 - 128)
	83	(61 - 128)
Toluene-d8	97	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)
	92	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4H100202 Work Order #....: GNFEM1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H180000-527 GNFEM1AD-LCSD
 Prep Date.....: 08/17/04 Analysis Date...: 08/17/04
 Prep Batch #....: 4231527
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>UNITS</u>	<u>PERCENT</u>	<u>RPD</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>		<u>RECOVERY</u>		
Benzene	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	101	0.85	SW846 8260B
Chlorobenzene	10	11	ug/L	108		SW846 8260B
	10	11	ug/L	107	1.6	SW846 8260B
1,1-Dichloroethene	10	11	ug/L	109		SW846 8260B
	10	11	ug/L	106	2.4	SW846 8260B
Toluene	10	11	ug/L	105		SW846 8260B
	10	11	ug/L	108	2.4	SW846 8260B
Trichloroethene	10	11	ug/L	106		SW846 8260B
	10	11	ug/L	108	1.9	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
	102	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
	100	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	112	(74 - 116)
	113	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GNFEM1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H180000-527 GNFEM1AD-LCSD
 Prep Date.....: 08/17/04 Analysis Date...: 08/17/04
 Prep Batch #...: 4231527
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>RPD</u>	<u>LIMITS</u>	<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>				
Benzene	102	(80 - 116)				SW846 8260B
	101	(80 - 116)	0.85	(0-20)		SW846 8260B
Chlorobenzene	108	(76 - 117)				SW846 8260B
	107	(76 - 117)	1.6	(0-20)		SW846 8260B
1,1-Dichloroethene	109	(63 - 130)				SW846 8260B
	106	(63 - 130)	2.4	(0-20)		SW846 8260B
Toluene	105	(74 - 119)				SW846 8260B
	108	(74 - 119)	2.4	(0-20)		SW846 8260B
Trichloroethene	106	(75 - 122)				SW846 8260B
	108	(75 - 122)	1.9	(0-20)		SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
	102	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
	100	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	112	(74 - 116)
	113	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GMTLR1AM-MS Matrix.....: WATER
 MS Lot-Sample #: A4H100174-002 GMTLR1AN-MSD
 Date Sampled...: 08/09/04 11:38 Date Received...: 08/10/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4227028
 Dilution Factor: 5 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	ND	50	47	ug/L	95		SW846 8260B
	ND	50	47	ug/L	93	1.5	SW846 8260B
Chlorobenzene	ND	50	47	ug/L	94		SW846 8260B
	ND	50	46	ug/L	92	2.4	SW846 8260B
1,1-Dichloroethene	ND	50	49	ug/L	97		SW846 8260B
	ND	50	49	ug/L	98	0.67	SW846 8260B
Toluene	ND	50	48	ug/L	97		SW846 8260B
	ND	50	49	ug/L	98	1.1	SW846 8260B
Trichloroethene	11	50	56	ug/L	91		SW846 8260B
	11	50	54	ug/L	87	3.8	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	95	(73 - 122)
	93	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
	89	(61 - 128)
Toluene-d8	98	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)
	88	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GMTLR1AM-MS Matrix.....: WATER
 MS Lot-Sample #: A4H100174-002 GMTLR1AN-MSD
 Date Sampled...: 08/09/04 11:38 Date Received...: 08/10/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4227028
 Dilution Factor: 5 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	95	(78 - 118)			SW846 8260B
	93	(78 - 118)	1.5	(0-20)	SW846 8260B
Chlorobenzene	94	(76 - 117)			SW846 8260B
	92	(76 - 117)	2.4	(0-20)	SW846 8260B
1,1-Dichloroethene	97	(62 - 130)			SW846 8260B
	98	(62 - 130)	0.67	(0-20)	SW846 8260B
Toluene	97	(70 - 119)			SW846 8260B
	98	(70 - 119)	1.1	(0-20)	SW846 8260B
Trichloroethene	91	(62 - 130)			SW846 8260B
	87	(62 - 130)	3.8	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	95	(73 - 122)
	93	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
	89	(61 - 128)
Toluene-d8	98	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)
	88	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GML6T1C1-MS Matrix.....: WATER
 MS Lot-Sample #: A4H060243-013 GML6T1C2-MSD
 Date Sampled...: 08/04/04 16:45 Date Received...: 08/06/04
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #...: 4229361
 Dilution Factor: 10000 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	230000	100000	370000	ug/L	133 a		SW846 8260B
	230000	100000	380000	ug/L	146 a	3.5	SW846 8260B
Chlorobenzene	ND	100000	97000	ug/L	97		SW846 8260B
	ND	100000	98000	ug/L	98	1.0	SW846 8260B
1,1-Dichloroethene	ND	100000	100000	ug/L	100		SW846 8260B
	ND	100000	100000	ug/L	102	2.0	SW846 8260B
Toluene	13000	100000	110000	ug/L	98		SW846 8260B
	13000	100000	120000	ug/L	102	3.3	SW846 8260B
Trichloroethene	ND	100000	96000	ug/L	96		SW846 8260B
	ND	100000	100000	ug/L	101	4.8	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	90	(73 - 122)
	90	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	86	(61 - 128)
Toluene-d8	98	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)
	90	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

■ Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GML6T1C1-MS Matrix.....: WATER
 MS Lot-Sample #: A4H060243-013 GML6T1C2-MSD
 Date Sampled...: 08/04/04 16:45 Date Received...: 08/06/04
 Prep Date.....: 08/16/04 Analysis Date...: 08/16/04
 Prep Batch #...: 4229361
 Dilution Factor: 10000 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	133 a	(78 - 118)			SW846 8260B
	146 a	(78 - 118)	3.5	(0-20)	SW846 8260B
Chlorobenzene	97	(76 - 117)			SW846 8260B
	98	(76 - 117)	1.0	(0-20)	SW846 8260B
1,1-Dichloroethene	100	(62 - 130)			SW846 8260B
	102	(62 - 130)	2.0	(0-20)	SW846 8260B
Toluene	98	(70 - 119)			SW846 8260B
	102	(70 - 119)	3.3	(0-20)	SW846 8260B
Trichloroethene	96	(62 - 130)			SW846 8260B
	101	(62 - 130)	4.8	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	90	(73 - 122)
	90	(73 - 122)
1,2-Dichloroethane-d4	89	(61 - 128)
	86	(61 - 128)
Toluene-d8	98	(76 - 110)
	95	(76 - 110)
4-Bromofluorobenzene	92	(74 - 116)
	90	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

a Spiked analyte recovery is outside stated control limits.

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4H100202 Work Order #....: GMTP31AC-MS Matrix.....: WG
 MS Lot-Sample #: A4H100202-001 GMTP31AD-MSD
 Date Sampled....: 08/09/04 11:40 Date Received...: 08/10/04
 Prep Date.....: 08/15/04 Analysis Date...: 08/15/04
 Prep Batch #....: 4229439
 Dilution Factor: 2 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	ND	20	20	ug/L	99		SW846 8260B
	ND	20	20	ug/L	99	0.26	SW846 8260B
Chlorobenzene	ND	20	20	ug/L	100		SW846 8260B
	ND	20	20	ug/L	100	0.30	SW846 8260B
1,1-Dichloroethene	ND	20	21	ug/L	103		SW846 8260B
	ND	20	21	ug/L	104	1.2	SW846 8260B
Toluene	ND	20	21	ug/L	103		SW846 8260B
	ND	20	21	ug/L	105	1.6	SW846 8260B
Trichloroethene	ND	20	20	ug/L	101		SW846 8260B
	ND	20	21	ug/L	103	1.9	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	88	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	87	(61 - 128)
Toluene-d8	96	(76 - 110)
	97	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)
	92	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GMTP31AC-MS Matrix.....: WG
 MS Lot-Sample #: A4H100202-001 GMTP31AD-MSD
 Date Sampled...: 08/09/04 11:40 Date Received...: 08/10/04
 Prep Date.....: 08/15/04 Analysis Date...: 08/15/04
 Prep Batch #...: 4229439
 Dilution Factor: 2 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	99	(78 - 118)			SW846 8260B
	99	(78 - 118)	0.26	(0-20)	SW846 8260B
Chlorobenzene	100	(76 - 117)			SW846 8260B
	100	(76 - 117)	0.30	(0-20)	SW846 8260B
1,1-Dichloroethene	103	(62 - 130)			SW846 8260B
	104	(62 - 130)	1.2	(0-20)	SW846 8260B
Toluene	103	(70 - 119)			SW846 8260B
	105	(70 - 119)	1.6	(0-20)	SW846 8260B
Trichloroethene	101	(62 - 130)			SW846 8260B
	103	(62 - 130)	1.9	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	88	(73 - 122)
	88	(73 - 122)
1,2-Dichloroethane-d4	87	(61 - 128)
	87	(61 - 128)
Toluene-d8	96	(76 - 110)
	97	(76 - 110)
4-Bromofluorobenzene	88	(74 - 116)
	92	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H100202 Work Order #...: GM01C1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4H120171-001 GM01C1AD-MSD
 Date Sampled...: 08/11/04 10:25 Date Received...: 08/12/04
 Prep Date.....: 08/17/04 Analysis Date...: 08/17/04
 Prep Batch #...: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	ND	10	11	ug/L	107		SW846 8260B
	ND	10	9.8	ug/L	98	9.1	SW846 8260B
Chlorobenzene	ND	10	11	ug/L	108		SW846 8260B
	ND	10	10	ug/L	102	5.3	SW846 8260B
1,1-Dichloroethene	ND	10	10	ug/L	103		SW846 8260B
	ND	10	10	ug/L	100	2.8	SW846 8260B
Toluene	ND	10	11	ug/L	106		SW846 8260B
	ND	10	10	ug/L	103	3.0	SW846 8260B
Trichloroethene	ND	10	11	ug/L	107		SW846 8260B
	ND	10	10	ug/L	102	5.0	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	103	(73 - 122)
	97	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
	98	(61 - 128)
Toluene-d8	96	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	113	(74 - 116)
	111	(74 - 116)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4H100202 Work Order #....: GM01C1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4H120171-001 GM01C1AD-MSD
 Date Sampled...: 08/11/04 10:25 Date Received...: 08/12/04
 Prep Date.....: 08/17/04 Analysis Date...: 08/17/04
 Prep Batch #....: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	107	(78 - 118)			SW846 8260B
	98	(78 - 118)	9.1	(0-20)	SW846 8260B
Chlorobenzene	108	(76 - 117)			SW846 8260B
	102	(76 - 117)	5.3	(0-20)	SW846 8260B
1,1-Dichloroethene	103	(62 - 130)			SW846 8260B
	100	(62 - 130)	2.8	(0-20)	SW846 8260B
Toluene	106	(70 - 119)			SW846 8260B
	103	(70 - 119)	3.0	(0-20)	SW846 8260B
Trichloroethene	107	(62 - 130)			SW846 8260B
	102	(62 - 130)	5.0	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	103	(73 - 122)
	97	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
	98	(61 - 128)
Toluene-d8	96	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	113	(74 - 116)
	111	(74 - 116)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters



GCMS SEMIVOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-197

GC/MS Semivolatiles

Lot-Sample #....: A4H100202-007 Work Order #....: GMTQGLAC Matrix.....: WG
 Date Sampled....: 08/09/04 16:40 Date Received...: 08/10/04
 Prep Date.....: 08/11/04 Analysis Date...: 08/13/04
 Prep Batch #....: 4224064
 Dilution Factor: 1 Initial Wgt/Vol: 950 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.028
Acenaphthylene	ND	5.0	ug/L	0.030
Acetophenone	ND	5.0	ug/L	0.19
Anthracene	ND	5.0	ug/L	0.030
Atrazine	ND	5.0	ug/L	0.36
Benzo(a)anthracene	ND	4.0	ug/L	0.028
Benzo(a)pyrene	ND	4.0	ug/L	0.022
Benzo(b)fluoranthene	ND	4.0	ug/L	0.043
Benzo(ghi)perylene	ND	5.0	ug/L	0.044
Benzo(k)fluoranthene	ND	5.0	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.24
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.19
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	0.36
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.29
Butyl benzyl phthalate	ND	5.0	ug/L	0.14
Caprolactam	ND	10	ug/L	0.73
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	20	ug/L	0.31
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.18
2-Chloronaphthalene	ND	5.0	ug/L	0.29
2-Chlorophenol	ND	5.0	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.21
Chrysene	ND	5.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	4.0	ug/L	0.054
Dibenzofuran	ND	5.0	ug/L	0.025
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	5.0	ug/L	0.12
2,4-Dimethylphenol	ND	5.0	ug/L	0.23
Dimethyl phthalate	ND	5.0	ug/L	0.27
Di-n-butyl phthalate	ND	5.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-197

GC/MS Semivolatiles

Lot-Sample #....: A4H100202-007 Work Order #....: GMTQG1AC Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	1.8
2,4-Dinitrophenol	ND	20	ug/L	1.3
2,4-Dinitrotoluene	ND	5.0	ug/L	0.16
2,6-Dinitrotoluene	ND	5.0	ug/L	0.17
Di-n-octyl phthalate	ND	5.0	ug/L	0.16
Fluoranthene	ND	5.0	ug/L	0.024
Fluorene	ND	5.0	ug/L	0.035
Hexachlorobenzene	ND	5.0	ug/L	0.075
Hexachlorobutadiene	ND	5.0	ug/L	0.11
Hexachlorocyclopenta- diene	ND	5.0	ug/L	1.5
Hexachloroethane	ND	5.0	ug/L	0.21
Indeno(1,2,3-cd)pyrene	ND	4.0	ug/L	0.081
Isophorone	ND	5.0	ug/L	0.16
2-Methylnaphthalene	ND	5.0	ug/L	0.028
2-Methylphenol	ND	5.0	ug/L	0.15
4-Methylphenol	ND	5.0	ug/L	0.20
Naphthalene	ND	5.0	ug/L	0.031
2-Nitroaniline	ND	20	ug/L	0.18
3-Nitroaniline	ND	20	ug/L	0.094
4-Nitroaniline	ND	20	ug/L	0.11
Nitrobenzene	ND	4.0	ug/L	0.21
2-Nitrophenol	ND	5.0	ug/L	0.14
4-Nitrophenol	ND	20	ug/L	1.0
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.21
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.18
2,2'-oxybis(1-Chloropropane)	ND	5.0	ug/L	0.21
Pentachlorophenol	ND	20	ug/L	2.0
Phenanthrene	ND	5.0	ug/L	0.044
Phenol	ND	5.0	ug/L	0.14
Pyrene	ND	5.0	ug/L	0.051
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.13
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.16

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	64	(32 - 112)
2-Fluorobiphenyl	53	(30 - 110)
Terphenyl-d14	80	(10 - 144)
Phenol-d5	22	(10 - 113)
2-Fluorophenol	33	(13 - 110)
2,4,6-Tribromophenol	64	(21 - 122)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-199

GC/MS Semivolatiles

Lot-Sample #....: A4H100202-009 Work Order #....: GMTQKLAC Matrix.....: WG
 Date Sampled....: 08/09/04 18:00 Date Received...: 08/10/04
 Prep Date.....: 08/11/04 Analysis Date...: 08/13/04
 Prep Batch #....: 4224064
 Dilution Factor: 4 Initial Wgt/Vol: 975 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	20	ug/L	0.11
Acenaphthylene	ND	20	ug/L	0.12
Acetophenone	ND	20	ug/L	0.76
Anthracene	ND	20	ug/L	0.12
Atrazine	ND	20	ug/L	1.4
Benzo (a) anthracene	5.4 J	16	ug/L	0.11
Benzo (a) pyrene	2.3 J	16	ug/L	0.088
Benzo (b) fluoranthene	4.3 J	16	ug/L	0.17
Benzo (ghi) perylene	2.0 J	20	ug/L	0.18
Benzo (k) fluoranthene	2.1 J	20	ug/L	0.28
Benzaldehyde	ND	40	ug/L	0.68
1,1'-Biphenyl	ND	40	ug/L	1.2
bis (2-Chloroethoxy) methane	ND	20	ug/L	0.96
bis (2-Chloroethyl) - ether	ND	16	ug/L	0.76
bis (2-Ethylhexyl) phthalate	ND	20	ug/L	1.4
4-Bromophenyl phenyl ether	ND	20	ug/L	1.2
Butyl benzyl phthalate	ND	20	ug/L	0.56
Caprolactam	ND	40	ug/L	2.9
Carbazole	ND	40	ug/L	0.68
4-Chloroaniline	ND	80	ug/L	1.2
4-Chloro-3-methylphenol	ND	20	ug/L	0.72
2-Chloronaphthalene	ND	20	ug/L	1.2
2-Chlorophenol	ND	20	ug/L	0.56
4-Chlorophenyl phenyl ether	ND	20	ug/L	0.84
Chrysene	4.0 J	20	ug/L	0.14
Dibenz (a, h) anthracene	ND	16	ug/L	0.22
Dibenzofuran	ND	20	ug/L	0.10
3,3'-Dichlorobenzidine	ND	16	ug/L	0.76
2,4-Dichlorophenol	ND	40	ug/L	0.96
Diethyl phthalate	ND	20	ug/L	0.48
2,4-Dimethylphenol	ND	20	ug/L	0.92
Dimethyl phthalate	ND	20	ug/L	1.1
Di-n-butyl phthalate	ND	20	ug/L	0.52

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-199

GC/MS Semivolatiles

Lot-Sample #....: A4H100202-009 Work Order #....: GMTQK1AC Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
4,6-Dinitro- 2-methylphenol	ND	80	ug/L	7.2
2,4-Dinitrophenol	ND	80	ug/L	5.2
2,4-Dinitrotoluene	ND	20	ug/L	0.64
2,6-Dinitrotoluene	ND	20	ug/L	0.68
Di-n-octyl phthalate	ND	20	ug/L	0.64
Fluoranthene	19 J	20	ug/L	0.096
Fluorene	ND	20	ug/L	0.14
Hexachlorobenzene	ND	20	ug/L	0.30
Hexachlorobutadiene	ND	20	ug/L	0.44
Hexachlorocyclopenta- diene	ND	20	ug/L	6.0
Hexachloroethane	ND	20	ug/L	0.84
Indeno(1,2,3-cd)pyrene	1.8 J	16	ug/L	0.32
Isophorone	ND	20	ug/L	0.64
2-Methylnaphthalene	ND	20	ug/L	0.11
2-Methylphenol	ND	20	ug/L	0.60
4-Methylphenol	ND	20	ug/L	0.80
Naphthalene	ND	20	ug/L	0.12
2-Nitroaniline	ND	80	ug/L	0.72
3-Nitroaniline	ND	80	ug/L	0.38
4-Nitroaniline	ND	80	ug/L	0.44
Nitrobenzene	ND	16	ug/L	0.84
2-Nitrophenol	ND	20	ug/L	0.56
4-Nitrophenol	ND	80	ug/L	4.0
N-Nitrosodi-n-propyl- amine	ND	20	ug/L	0.84
N-Nitrosodiphenylamine	ND	20	ug/L	0.72
2,2'-oxybis(1-Chloropropane)	ND	20	ug/L	0.84
Pentachlorophenol	ND	80	ug/L	8.0
Phenanthrene	4.3 J	20	ug/L	0.18
Phenol	ND	20	ug/L	0.56
Pyrene	22	20	ug/L	0.20
2,4,5-Trichloro- phenol	ND	20	ug/L	0.52
2,4,6-Trichloro- phenol	ND	16	ug/L	0.64

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	75 DIL	(32 - 112)
2-Fluorobiphenyl	59 DIL	(30 - 110)
Terphenyl-d14	71 DIL	(10 - 144)
Phenol-d5	22 DIL	(10 - 113)
2-Fluorophenol	30 DIL	(13 - 110)
2,4,6-Tribromophenol	76 DIL	(21 - 122)

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-199

GC/MS Semivolatiles

Lot-Sample #...: A4H100202-009 Work Order #...: GMTQK1AC Matrix.....: WG

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-200

GC/MS Semivolatiles

Lot-Sample #....: A4H100202-010 Work Order #....: GMTQM1AC Matrix.....: WG
 Date Sampled....: 08/09/04 18:35 Date Received...: 08/10/04
 Prep Date.....: 08/11/04 Analysis Date...: 08/13/04
 Prep Batch #....: 4224064
 Dilution Factor: 10 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	50	ug/L	0.28
Acenaphthylene	ND	50	ug/L	0.30
Acetophenone	ND	50	ug/L	1.9
Anthracene	ND	50	ug/L	0.30
Atrazine	ND	50	ug/L	3.6
Benzo(a)anthracene	ND	40	ug/L	0.28
Benzo(a)pyrene	ND	40	ug/L	0.22
Benzo(b)fluoranthene	ND	40	ug/L	0.43
Benzo(ghi)perylene	ND	50	ug/L	0.44
Benzo(k)fluoranthene	ND	50	ug/L	0.71
Benzaldehyde	ND	100	ug/L	1.7
1,1'-Biphenyl	ND	100	ug/L	3.0
bis(2-Chloroethoxy) methane	ND	50	ug/L	2.4
bis(2-Chloroethyl)- ether	ND	40	ug/L	1.9
bis(2-Ethylhexyl) phthalate	8.4 J	50	ug/L	3.6
4-Bromophenyl phenyl ether	ND	50	ug/L	2.9
Butyl benzyl phthalate	ND	50	ug/L	1.4
Caprolactam	9.5 J	100	ug/L	7.3
Carbazole	ND	100	ug/L	1.7
4-Chloroaniline	ND	200	ug/L	3.1
4-Chloro-3-methylphenol	ND	50	ug/L	1.8
2-Chloronaphthalene	ND	50	ug/L	2.9
2-Chlorophenol	ND	50	ug/L	1.4
4-Chlorophenyl phenyl ether	ND	50	ug/L	2.1
Chrysene	ND	50	ug/L	0.35
Dibenz(a,h)anthracene	ND	40	ug/L	0.54
Dibenzofuran	ND	50	ug/L	0.25
3,3'-Dichlorobenzidine	ND	40	ug/L	1.9
2,4-Dichlorophenol	ND	100	ug/L	2.4
Diethyl phthalate	ND	50	ug/L	1.2
2,4-Dimethylphenol	ND	50	ug/L	2.3
Dimethyl phthalate	ND	50	ug/L	2.7
Di-n-butyl phthalate	ND	50	ug/L	1.3

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-200

GC/MS Semivolatiles

Lot-Sample #...: A4H100202-010 Work Order #...: GMTQMLAC Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	200	ug/L	18
2,4-Dinitrophenol	ND	200	ug/L	13
2,4-Dinitrotoluene	ND	50	ug/L	1.6
2,6-Dinitrotoluene	ND	50	ug/L	1.7
Di-n-octyl phthalate	ND	50	ug/L	1.6
Fluoranthene	5.8 J	50	ug/L	0.24
Fluorene	ND	50	ug/L	0.35
Hexachlorobenzene	ND	50	ug/L	0.75
Hexachlorobutadiene	ND	50	ug/L	1.1
Hexachlorocyclopenta- diene	ND	50	ug/L	15
Hexachloroethane	ND	50	ug/L	2.1
Indeno(1,2,3-cd)pyrene	ND	40	ug/L	0.81
Isophorone	ND	50	ug/L	1.6
2-Methylnaphthalene	ND	50	ug/L	0.28
2-Methylphenol	ND	50	ug/L	1.5
4-Methylphenol	ND	50	ug/L	2.0
Naphthalene	ND	50	ug/L	0.31
2-Nitroaniline	ND	200	ug/L	1.8
3-Nitroaniline	ND	200	ug/L	0.94
4-Nitroaniline	ND	200	ug/L	1.1
Nitrobenzene	ND	40	ug/L	2.1
2-Nitrophenol	ND	50	ug/L	1.4
4-Nitrophenol	ND	200	ug/L	10
N-Nitrosodi-n-propyl- amine	ND	50	ug/L	2.1
N-Nitrosodiphenylamine	ND	50	ug/L	1.8
2,2'-oxybis(1-Chloropropane)	ND	50	ug/L	2.1
Pentachlorophenol	ND	200	ug/L	20
Phenanthrene	ND	50	ug/L	0.44
Phenol	ND	50	ug/L	1.4
Pyrene	6.1 J	50	ug/L	0.51
2,4,5-Trichloro- phenol	ND	50	ug/L	1.3
2,4,6-Trichloro- phenol	ND	40	ug/L	1.6

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	74 DIL	(32 - 112)
2-Fluorobiphenyl	65 DIL	(30 - 110)
Terphenyl-d14	71 DIL	(10 - 144)
Phenol-d5	19 DIL	(10 - 113)
2-Fluorophenol	29 DIL	(13 - 110)
2,4,6-Tribromophenol	73 DIL	(21 - 122)

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-080904-DCR-200

GC/MS Semivolatiles

Lot-Sample #...: A4H100202-010 Work Order #...: GMTQMLAC Matrix.....: WG

NOTE(S) :

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4H100202
 MB Lot-Sample #: A4H110000-064
 Analysis Date...: 08/13/04
 Dilution Factor: 1

Work Order #...: GMV471AA
 Prep Date.....: 08/11/04
 Prep Batch #...: 4224064
 Initial Wgt/Vol: 1000 mL

Matrix.....: WATER
 Final Wgt/Vol...: 2 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	5.0	ug/L	SW846 8270C
Acenaphthylene	ND	5.0	ug/L	SW846 8270C
Acetophenone	ND	5.0	ug/L	SW846 8270C
Anthracene	ND	5.0	ug/L	SW846 8270C
Atrazine	ND	5.0	ug/L	SW846 8270C
Benzo (a) anthracene	ND	4.0	ug/L	SW846 8270C
Benzo (a) pyrene	ND	4.0	ug/L	SW846 8270C
Benzo (b) fluoranthene	ND	4.0	ug/L	SW846 8270C
Benzo (ghi) perylene	ND	5.0	ug/L	SW846 8270C
Benzo (k) fluoranthene	ND	5.0	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis (2-Chloroethoxy) methane	ND	5.0	ug/L	SW846 8270C
bis (2-Chloroethyl) - ether	ND	4.0	ug/L	SW846 8270C
bis (2-Ethylhexyl) phthalate	ND	5.0	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	5.0	ug/L	SW846 8270C
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	20	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	5.0	ug/L	SW846 8270C
2-Chloronaphthalene	ND	5.0	ug/L	SW846 8270C
2-Chlorophenol	ND	5.0	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Chrysene	ND	5.0	ug/L	SW846 8270C
Dibenz (a, h) anthracene	ND	4.0	ug/L	SW846 8270C
Dibenzofuran	ND	5.0	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	4.0	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	5.0	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	5.0	ug/L	SW846 8270C
Dimethyl phthalate	ND	5.0	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	5.0	ug/L	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	20	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4H100202

Work Order #...: GMV471AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
2,4-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	5.0	ug/L	SW846 8270C
Fluoranthene	ND	5.0	ug/L	SW846 8270C
Fluorene	ND	5.0	ug/L	SW846 8270C
Hexachlorobenzene	ND	5.0	ug/L	SW846 8270C
Hexachlorobutadiene	ND	5.0	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	5.0	ug/L	SW846 8270C
Hexachloroethane	ND	5.0	ug/L	SW846 8270C
Indeno (1,2,3-cd)pyrene	ND	4.0	ug/L	SW846 8270C
Isophorone	ND	5.0	ug/L	SW846 8270C
2-Methylnaphthalene	ND	5.0	ug/L	SW846 8270C
2-Methylphenol	ND	5.0	ug/L	SW846 8270C
4-Methylphenol	ND	5.0	ug/L	SW846 8270C
Naphthalene	ND	5.0	ug/L	SW846 8270C
2-Nitroaniline	ND	20	ug/L	SW846 8270C
3-Nitroaniline	ND	20	ug/L	SW846 8270C
4-Nitroaniline	ND	20	ug/L	SW846 8270C
Nitrobenzene	ND	4.0	ug/L	SW846 8270C
2-Nitrophenol	ND	5.0	ug/L	SW846 8270C
4-Nitrophenol	ND	20	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	5.0	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	5.0	ug/L	SW846 8270C
Pentachlorophenol	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	5.0	ug/L	SW846 8270C
Phenol	ND	5.0	ug/L	SW846 8270C
Pyrene	ND	5.0	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	5.0	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	4.0	ug/L	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	69	(32 - 112)
2-Fluorobiphenyl	55	(30 - 110)
Terphenyl-d14	79	(10 - 144)
Phenol-d5	29	(10 - 113)
2-Fluorophenol	42	(13 - 110)
2,4,6-Tribromophenol	57	(21 - 122)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #....: A4H100202 Work Order #....: GMV471AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H110000-064 GMV471AD-LCSD
 Prep Date.....: 08/11/04 Analysis Date...: 08/13/04
 Prep Batch #....: 4224064
 Dilution Factor: 1 Final Wgt/Vol...: 2 mL
 Initial Wgt/Vol: 1000 mL

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Acenaphthene	20	15	ug/L	77		SW846 8270C
	20	17	ug/L	85	10	SW846 8270C
1,2,4-Trichloro- benzene	20	15	ug/L	75		SW846 8270C
	20	16	ug/L	82	8.8	SW846 8270C
1,4-Dichlorobenzene	20	14	ug/L	69		SW846 8270C
	20	19	ug/L	93	29	SW846 8270C
4-Chloro-3-methylphenol	20	16	ug/L	78		SW846 8270C
	20	17	ug/L	84	7.6	SW846 8270C
2-Chlorophenol	20	14	ug/L	72		SW846 8270C
	20	16	ug/L	81	12	SW846 8270C
2,4-Dinitrotoluene	20	17	ug/L	83		SW846 8270C
	20	18	ug/L	88	6.3	SW846 8270C
4-Nitrophenol	20	8.2	ug/L	41		SW846 8270C
	20	9.5	ug/L	48	15	SW846 8270C
N-Nitrosodi-n-propyl- amine	20	18	ug/L	88		SW846 8270C
	20	19	ug/L	95	7.6	SW846 8270C
Pentachlorophenol	20	12	ug/L	58		SW846 8270C
	20	14	ug/L	69	17	SW846 8270C
Phenol	20	9.3	ug/L	46		SW846 8270C
	20	9.6	ug/L	48	3.3	SW846 8270C
Pyrene	20	16	ug/L	80		SW846 8270C
	20	17	ug/L	84	5.4	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	75	(32 - 112)
	85	(32 - 112)
2-Fluorobiphenyl	67	(30 - 110)
	74	(30 - 110)
Terphenyl-d14	79	(10 - 144)
	82	(10 - 144)
Phenol-d5	43	(10 - 113)
	44	(10 - 113)
2-Fluorophenol	54	(13 - 110)
	56	(13 - 110)

(Continued on next page)

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #...: A4H100202 Work Order #...: GMV471AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H110000-064 GMV471AD-LCSD
 Prep Date.....: 08/11/04 Analysis Date...: 08/13/04
 Prep Batch #...: 4224064
 Dilution Factor: 1 Final Wgt/Vol...: 2 mL
 Initial Wgt/Vol: 1000 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Acenaphthene	77	(39 - 118)			SW846 8270C
	85	(39 - 118)	10	(0-35)	SW846 8270C
1,2,4-Trichloro- benzene	75	(31 - 110)			SW846 8270C
	82	(31 - 110)	8.8	(0-37)	SW846 8270C
1,4-Dichlorobenzene	69	(28 - 110)			SW846 8270C
	93	(28 - 110)	29	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	78	(29 - 124)			SW846 8270C
	84	(29 - 124)	7.6	(0-55)	SW846 8270C
2-Chlorophenol	72	(19 - 124)			SW846 8270C
	81	(19 - 124)	12	(0-43)	SW846 8270C
2,4-Dinitrotoluene	83	(47 - 131)			SW846 8270C
	88	(47 - 131)	6.3	(0-32)	SW846 8270C
4-Nitrophenol	41	(19 - 144)			SW846 8270C
	48	(19 - 144)	15	(0-34)	SW846 8270C
N-Nitrosodi-n-propyl- amine	88	(30 - 115)			SW846 8270C
	95	(30 - 115)	7.6	(0-36)	SW846 8270C
Pentachlorophenol	58	(10 - 140)			SW846 8270C
	69	(10 - 140)	17	(0-56)	SW846 8270C
Phenol	46	(10 - 131)			SW846 8270C
	48	(10 - 131)	3.3	(0-43)	SW846 8270C
Pyrene	80	(46 - 130)			SW846 8270C
	84	(46 - 130)	5.4	(0-31)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	75	(32 - 112)
	85	(32 - 112)
2-Fluorobiphenyl	67	(30 - 110)
	74	(30 - 110)
Terphenyl-d14	79	(10 - 144)
	82	(10 - 144)
Phenol-d5	43	(10 - 113)
	44	(10 - 113)
2-Fluorophenol	54	(13 - 110)
	56	(13 - 110)

(Continued on next page)

END OF REPORT

REC'D CRA
SEP - 2 2004
G-24
G-25

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720
Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09
GM-GRAND RAPIDS
Lot #: A4H110160

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4H110160
Name: GM-GR

SEVERN TRENT LABORATORIES, INC.

Description
Event: Quarterly GW
Samples: 16 water
Analysis: TCL VOC, SVOC

Ker Kyrer for
Amy L. McCormick
Project Manager

TAT: 21 day
Lab: STL

Checked Against Preliminary Data:
Date: _____ Init.: KAK
Date of Validation Memo: 10/20/04
Invoice Approval Date: _____
Comments: _____

August 31, 2004

Cooler # MI 556 1 of 2

CRA
CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): **STL - North Canton**

REFERENCE NUMBER:
17360-09

PROJECT NAME: **GM - Grand Rapids**

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: **David C. Rivers**

SEQ. No.	DATE	TIME	CONTAINER NO.	SAMPLE TYPE	PARAMETERS	REMARKS
1	8/19/09	906	5	H ₂ O	X X	
2		916	5		X X	
3		915	3		X	
4		1056	3		X	
5		1101	3		X X	
6		1156	3		X X	
7		1236	3		X X	
8		1456	3		X X	
9		1406	3		X X	
10		1426	3		X X	
11		1551	3		X X	
12		1611	3		X X	
13		1646	3		X X	
14		1651	3		X X	
TOTAL NUMBER OF CONTAINERS					46	

CRA Contact
 Paul Wiseman

RELINQUISHED BY: *[Signature]* DATE: 8-10-09 TIME: 1830
 RELINQUISHED BY: _____ DATE: _____ TIME: _____
 RELINQUISHED BY: _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: **Fed Ex** AIR BILL No. **8393 5588 8820**

White - Fully Executed Copy Pink - Shipper Copy
 Yellow - Receiving Laboratory Copy Goldentrod - Sampler Copy

SAMPLE TEAM:
David Rivers
Bryant Miller

RECEIVED FOR LABORATORY BY: *[Signature]*
 DATE: 8-11-09 TIME: 0955

CASE NARRATIVE

CASE NARRATIVE

A4H110160

The following report contains the analytical results for sixteen water samples submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received August 11, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Amy L. McCormick, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 3.3°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

GC/MS SEMIVOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride

Acetone

2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper

Iron

Zinc

Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the repreparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

Alabama (#41170), California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Massachusetts (#M-OH048), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), Ohio VAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), Virginia (#00011), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



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STL

***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4H110160

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-081004-DCR-202 08/10/04 09:06 001				
bis(2-Ethylhexyl) phthalate	8.6 B	5.0	ug/L	SW846 8270C
Acetone	2.1 J	25	ug/L	SW846 8260B
Chloroform	0.28 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.5	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-203 08/10/04 09:16 002				
Acetone	1.8 J	25	ug/L	SW846 8260B
Benzene	0.26 J,B	1.0	ug/L	SW846 8260B
Chloroform	0.31 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.5	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-204 08/10/04 09:15 003				
Tetrachloroethene	10	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-205 08/10/04 10:56 004				
Chloroform	1.0	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.95 J	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-206 08/10/04 11:01 005				
Acetone	0.85 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	1.9	1.0	ug/L	SW846 8260B
Vinyl chloride	1.1	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-207 08/10/04 11:56 006				
Benzene	1.2 J,B	5.0	ug/L	SW846 8260B
Tetrachloroethene	160	5.0	ug/L	SW846 8260B
GW-17360-081004-DCR-208 08/10/04 12:36 007				
Acetone	1.7 J	25	ug/L	SW846 8260B
Bromodichloromethane	0.41 J	1.0	ug/L	SW846 8260B
Chloroform	2.7	1.0	ug/L	SW846 8260B
Trichloroethene	0.68 J	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4H110160

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-081004-DCR-209 08/10/04 14:56 008				
Acetone	1.9 J	25	ug/L	SW846 8260B
Benzene	0.24 J,B	1.0	ug/L	SW846 8260B
Chloroform	0.22 J	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.27 J	5.0	ug/L	SW846 8260B
GW-17360-081004-DCR-210 08/10/04 14:06 009				
Acetone	2.4 J	25	ug/L	SW846 8260B
Benzene	0.30 J,B	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	3.8	1.0	ug/L	SW846 8260B
Trichloroethene	0.74 J	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-211 08/10/04 14:26 010				
Acetone	1.9 J	25	ug/L	SW846 8260B
1,1-Dichloroethene	0.80 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	10	1.0	ug/L	SW846 8260B
Trichloroethene	2.0	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-212 08/10/04 15:51 011				
Acetone	0.93 J	25	ug/L	SW846 8260B
Chloroform	0.80 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.43 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	3.8	1.0	ug/L	SW846 8260B
Trichloroethene	0.63 J	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-213 08/10/04 16:11 012				
Acetone	0.94 J	25	ug/L	SW846 8260B
Benzene	0.26 J,B	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.41 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.99 J	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-214 08/10/04 16:46 013				
Acetone	1.7 J	25	ug/L	SW846 8260B
Benzene	0.28 J,B	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.31 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.49 J	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4H110160

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-081004-DCR-215 08/10/04 16:51 014				
Acetone	1.0 J	25	ug/L	SW846 8260B
Tetrachloroethene	0.23 J	1.0	ug/L	SW846 8260B
Trichloroethene	0.48 J	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-216 08/10/04 17:31 015				
Acetone	1.3 J	25	ug/L	SW846 8260B
Bromodichloromethane	0.41 J	1.0	ug/L	SW846 8260B
Chloroform	2.7	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.24 J	5.0	ug/L	SW846 8260B
Trichloroethene	2.4	1.0	ug/L	SW846 8260B
GW-17360-081004-DCR-217 08/10/04 016				
Acetone	8.9 J	25	ug/L	SW846 8260B
Benzene	0.29 J,B	1.0	ug/L	SW846 8260B
Methylene chloride	3.9 J	5.0	ug/L	SW846 8260B
Toluene	0.18 J	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4H110160

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Semivolatile Organic Compounds by GC/MS	SW846 8270C
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4H110160

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GMWL4	001	GW-17360-081004-DCR-202	08/10/04	09:06
GMWL6	002	GW-17360-081004-DCR-203	08/10/04	09:16
GMWL7	003	GW-17360-081004-DCR-204	08/10/04	09:15
GMWL8	004	GW-17360-081004-DCR-205	08/10/04	10:56
GMWL9	005	GW-17360-081004-DCR-206	08/10/04	11:01
GMWMC	006	GW-17360-081004-DCR-207	08/10/04	11:56
GMWMD	007	GW-17360-081004-DCR-208	08/10/04	12:36
GMWME	008	GW-17360-081004-DCR-209	08/10/04	14:56
GMWMG	009	GW-17360-081004-DCR-210	08/10/04	14:06
GMWMH	010	GW-17360-081004-DCR-211	08/10/04	14:26
GMWML	011	GW-17360-081004-DCR-212	08/10/04	15:51
GMWMM	012	GW-17360-081004-DCR-213	08/10/04	16:11
GMWMN	013	GW-17360-081004-DCR-214	08/10/04	16:46
GMWMP	014	GW-17360-081004-DCR-215	08/10/04	16:51
GMWMR	015	GW-17360-081004-DCR-216	08/10/04	17:31
GMWMT	016	GW-17360-081004-DCR-217	08/10/04	

NOTE (S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name): **STL - North Canton**

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER: **17360-09**
 PROJECT NAME: **GM - Grand Rapids**

SAMPLERS SIGNATURE: *[Signature]* PRINTED NAME: **David C Rivers**

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PARAMETERS	REMARKS
1	8/10/09	9:46	H2O	5	TUR, VUL, S, VOLS	
2		9:16		5	STP, TAT	
3		9:15		3		
4		10:56		3		
5		11:01		3		
6		11:56		3		
7		12:36		3		
8		14:56		3		
9		14:46		3		
10		14:26		3		
11		15:51		3		
12		16:11		3		
13		16:46		3		
14		16:51		3		
TOTAL NUMBER OF CONTAINERS				46		

CRA Contact
 Paul Wiseman

RELINQUISHED BY: 1. *[Signature]* DATE: 8-10-09 RECEIVED BY: 1. _____ DATE: _____

RELINQUISHED BY: 2. _____ DATE: _____ RECEIVED BY: 2. _____ DATE: _____

RELINQUISHED BY: 3. _____ DATE: _____ RECEIVED BY: 3. _____ DATE: _____

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Yellow - Fully Executed Copy - Receiving Laboratory Copy - Shipper Copy - Goldenrod - Sampler Copy

SAMPLE TEAM: **David Rivers**
Bryant Miller

RECEIVED FOR LABORATORY BY: *[Signature]*
 DATE: 8-11-09 TIME: 8:55

**Severn Trent Laboratories, Inc.
Sample Control Record**

RSR280
 Client: 57787
 Lot #: A4H10160
 Case Number/SDG: 17360-09
 Storage Location: C222 MS/MS

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GMWL4	STILLERJ	8/11/04	Yes		Storage	
GMWL6	STILLERJ	8/11/04	Yes		Storage	
GMWL7	STILLERJ	8/11/04	Yes		Storage	
GMWL8	STILLERJ	8/11/04	Yes		Storage	
GMWL9	STILLERJ	8/11/04	Yes		Storage	
GMWMC	STILLERJ	8/11/04	Yes		Storage	
GMWMD	STILLERJ	8/11/04	Yes		Storage	
GMWME	STILLERJ	8/11/04	Yes		Storage	
GMWNG	STILLERJ	8/11/04	Yes		Storage	
GMWNH	STILLERJ	8/11/04	Yes		Storage	
GMWNL	STILLERJ	8/11/04	Yes		Storage	
GMWMM	STILLERJ	8/11/04	Yes		Storage	
GMWMN	STILLERJ	8/11/04	Yes		Storage	
GMWMP	STILLERJ	8/11/04	Yes		Storage	
GMWMR	STILLERJ	8/11/04	Yes		Storage	
GMWMT	STILLERJ	8/11/04	Yes		Storage	

STL Cooler Receipt Form/Narrative

Lot Number: A4F1110.100

North Canton Facility

Client: CRA Project: 17360 C9 Quote#: _____
 Cooler Received on: 8-11-04 Opened on: 8-11-04 by: _____
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____

STL Cooler No# ML-55 Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Did custody papers accompany the samples? Yes No Relinquished by client? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 3.3 °C (see back of form for multiple coolers/temp)
- METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning:

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #052804-HNO₃; Sulfuric Acid Lot # 011-504-H₂SO₄; Sodium Hydroxide Lot # -031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials



STL

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-202

GC/MS Volatiles

Lot-Sample #....: A4H110160-001 Work Order #....: GMWL41AA Matrix.....: WG
 Date Sampled...: 08/10/04 09:06 Date Received...: 08/11/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #....: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	2.1 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	0.28 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-202

GC/MS Volatiles

Lot-Sample #...: A4H110160-001 Work Order #...: GMWL41AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	1.5	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	103	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-203

GC/MS Volatiles

Lot-Sample #...: A4H110160-002 Work Order #...: GMWL61AA Matrix.....: WG
 Date Sampled...: 08/10/04 09:16 Date Received...: 08/11/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #...: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.8 J	25	ug/L	0.74
Benzene	0.26 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	0.31 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-203

GC/MS Volatiles

Lot-Sample #...: A4H110160-002 Work Order #...: GMWL61AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	1.5	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	104	(74 - 116)

NOTE(S) :

- J Estimated result. Result is less than RL.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-204

GC/MS Volatiles

Lot-Sample #....: A4H110160-003 Work Order #....: GMWL71AA Matrix.....: WG
 Date Sampled...: 08/10/04 09:15 Date Received...: 08/11/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #....: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-204

GC/MS Volatiles

Lot-Sample #...: A4H110160-003 Work Order #...: GMWL71AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	10	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-205

GC/MS Volatiles

Lot-Sample #...: A4H110160-004 Work Order #...: GMWL81AA Matrix.....: WG
 Date Sampled...: 08/10/04 10:56 Date Received...: 08/11/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #...: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.0	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-205

GC/MS Volatiles

Lot-Sample #...: A4H110160-004 Work Order #...: GMWL81AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.95 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	103	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-206

GC/MS Volatiles

Lot-Sample #...: A4H110160-005 Work Order #...: GMWL91AA Matrix.....: WG
 Date Sampled...: 08/10/04 11:01 Date Received...: 08/11/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #...: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	0.85 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro-propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	1.9	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-206

GC/MS Volatiles

Lot-Sample #...: A4H110160-005 Work Order #...: GMWL91AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	1.1	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	96	(76 - 110)
4-Bromofluorobenzene	105	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-207

GC/MS Volatiles

Lot-Sample #...: A4H110160-006 Work Order #...: GMWMC1AA Matrix.....: WG
 Date Sampled...: 08/10/04 11:56 Date Received...: 08/11/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #...: 4231527
 Dilution Factor: 5 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	120	ug/L	3.7
Benzene	1.2 J,B	5.0	ug/L	1.1
Bromodichloromethane	ND	5.0	ug/L	0.70
Bromoform	ND	5.0	ug/L	0.85
Bromomethane	ND	5.0	ug/L	1.8
2-Butanone	ND	120	ug/L	2.0
Carbon disulfide	ND	25	ug/L	1.4
Carbon tetrachloride	ND	5.0	ug/L	0.95
Chlorobenzene	ND	5.0	ug/L	1.0
Chloroethane	ND	5.0	ug/L	1.2
Chloroform	ND	5.0	ug/L	0.80
Chloromethane	ND	5.0	ug/L	0.70
Cyclohexane	ND	5.0	ug/L	0.60
Dibromochloromethane	ND	5.0	ug/L	0.95
1,2-Dibromo-3-chloro- propane	ND	5.0	ug/L	1.4
1,2-Dibromoethane	ND	5.0	ug/L	1.2
1,2-Dichlorobenzene	ND	5.0	ug/L	1.0
1,3-Dichlorobenzene	ND	5.0	ug/L	0.90
1,4-Dichlorobenzene	ND	5.0	ug/L	1.1
Dichlorodifluoromethane	ND	5.0	ug/L	1.2
1,1-Dichloroethane	ND	5.0	ug/L	1.0
1,2-Dichloroethane	ND	5.0	ug/L	0.80
1,1-Dichloroethene	ND	5.0	ug/L	0.90
cis-1,2-Dichloroethene	ND	5.0	ug/L	1.0
trans-1,2-Dichloroethene	ND	5.0	ug/L	0.80
1,2-Dichloropropane	ND	5.0	ug/L	0.75
cis-1,3-Dichloropropene	ND	5.0	ug/L	0.60
trans-1,3-Dichloropropene	ND	5.0	ug/L	0.85
Ethylbenzene	ND	5.0	ug/L	0.95
2-Hexanone	ND	250	ug/L	1.8
Isopropylbenzene	ND	25	ug/L	0.75
Methyl acetate	ND	50	ug/L	2.6
Methylene chloride	ND	25	ug/L	0.95
Methylcyclohexane	ND	5.0	ug/L	2.5
4-Methyl-2-pentanone	ND	250	ug/L	1.6
Methyl tert-butyl ether	ND	25	ug/L	0.90
Styrene	ND	5.0	ug/L	0.65

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-207

GC/MS Volatiles

Lot-Sample #...: A4H110160-006 Work Order #...: GMWMC1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	1.1
Tetrachloroethene	160	5.0	ug/L	0.95
Toluene	ND	5.0	ug/L	0.85
1,2,4-Trichloro- benzene	ND	25	ug/L	0.95
1,1,1-Trichloroethane	ND	5.0	ug/L	1.0
1,1,2-Trichloroethane	ND	5.0	ug/L	1.1
Trichloroethene	ND	5.0	ug/L	1.4
Trichlorofluoromethane	ND	5.0	ug/L	0.80
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	5.0	ug/L	1.3
Vinyl chloride	ND	5.0	ug/L	1.0
Xylenes (total)	ND	15	ug/L	2.2

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	101	(73 - 122)
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-208

GC/MS Volatiles

Lot-Sample #...: A4H110160-007 Work Order #...: GMWMD1AA Matrix.....: WG
 Date Sampled...: 08/10/04 12:36 Date Received...: 08/11/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.7 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	0.41 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	2.7	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-208

GC/MS Volatiles

Lot-Sample #...: A4H110160-007 Work Order #...: GMWMD1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.68 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	98	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-209

GC/MS Volatiles

Lot-Sample #...: A4H110160-008 Work Order #...: GMWME1AA Matrix.....: WG
 Date Sampled...: 08/10/04 14:56 Date Received...: 08/11/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SWB46 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1.9 J	25	ug/L	0.74
Benzene	0.24 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	0.22 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	0.27 J	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-209

GC/MS Volatiles

Lot-Sample #...: A4H110160-008 Work Order #...: GMWME1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-210

GC/MS Volatiles

Lot-Sample #...: A4H110160-009 Work Order #...: GMWVG1AA Matrix.....: WG
 Date Sampled...: 08/10/04 14:06 Date Received...: 08/11/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	2.4 J	25	ug/L	0.74
Benzene	0.30 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-210

GC/MS Volatiles

Lot-Sample #...: A4H110160-009 Work Order #...: GMWMG1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	3.8	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.74 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	100	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	98	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-211

GC/MS Volatiles

Lot-Sample #...: A4H110160-010 Work Order #...: GMWMH1AA Matrix.....: WG
 Date Sampled...: 08/10/04 14:26 Date Received...: 08/11/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.9 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	0.80 J	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-211

GC/MS Volatiles

Lot-Sample #...: A4H110160-010 Work Order #...: GMWMH1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	10	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	2.0	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	98	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-212

GC/MS Volatiles

Lot-Sample #...: A4H110160-011 Work Order #...: GMWML1AA Matrix.....: WG
 Date Sampled...: 08/10/04 15:51 Date Received...: 08/11/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	0.93 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	0.80 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	0.43 J	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-212

GC/MS Volatiles

Lot-Sample #...: A4H110160-011 Work Order #...: GMWML1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	3.8	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.63 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	97	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-213

GC/MS Volatiles

Lot-Sample #...: A4H110160-012 Work Order #...: GMWMM1AA Matrix.....: WG
 Date Sampled...: 08/10/04 16:11 Date Received...: 08/11/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	0.94 J	25	ug/L	0.74
Benzene	0.26 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	0.41 J	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-213

GC/MS Volatiles

Lot-Sample #...: A4H110160-012 Work Order #...: GMWMM1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.99 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	96	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-214

GC/MS Volatiles

Lot-Sample #...: A4H110160-013 Work Order #...: GMWMN1AA Matrix.....: WG
 Date Sampled...: 08/10/04 16:46 Date Received...: 08/11/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1.7 J	25	ug/L	0.74
Benzene	0.28 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-214

GC/MS Volatiles

Lot-Sample #...: A4H110160-013 Work Order #...: GMWMN1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.31 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.49 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-215

GC/MS Volatiles

Lot-Sample #...: A4H110160-014 Work Order #...: GMWMP1AA Matrix.....: WG
 Date Sampled...: 08/10/04 16:51 Date Received...: 08/11/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1.0 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-215

GC/MS Volatiles

Lot-Sample #...: A4H110160-014 Work Order #...: GMWMP1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.23 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.48 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	103	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-216

GC/MS Volatiles

Lot-Sample #....: A4H110160-015 Work Order #....: GMWMR1AA Matrix.....: WG
 Date Sampled....: 08/10/04 17:31 Date Received...: 08/11/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #....: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.3 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	0.41 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	2.7	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	0.24 J	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-216

GC/MS Volatiles

Lot-Sample #...: A4H110160-015 Work Order #...: GMWMR1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	2.4	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	96	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-217

GC/MS Volatiles

Lot-Sample #....: A4H110160-016 Work Order #....: GMWMT1AA Matrix.....: WG
 Date Sampled....: 08/10/04 Date Received...: 08/11/04
 Prep Date.....: 08/18/04 Analysis Date...: 08/18/04
 Prep Batch #....: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	8.9 J	25	ug/L	0.74
Benzene	0.29 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	3.9 J	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-217

GC/MS Volatiles

Lot-Sample #...: A4H110160-016 Work Order #...: GMWMT1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	0.18 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	96	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H110160
 MB Lot-Sample #: A4H160000-392

Work Order #...: GM8LK1AA

Matrix.....: WATER

Analysis Date...: 08/14/04
 Dilution Factor: 1

Prep Date.....: 08/14/04
 Prep Batch #...: 4229392
 Initial Wgt/Vol: 5 mL

Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	0.35 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	0.84 J	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #....: A4H110160

Work Order #....: GM8LK1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro-benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	107	(73 - 122)
1,2-Dichloroethane-d4	103	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H110160
 MB Lot-Sample #: A4H180000-527

Work Order #...: GNFEM1AA

Matrix.....: WATER

Analysis Date...: 08/17/04
 Dilution Factor: 1

Prep Date.....: 08/17/04
 Prep Batch #...: 4231527
 Initial Wgt/Vol: 5 mL

Final Wgt/Vol...: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	0.38 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	ND	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

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METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H110160

Work Order #...: GNFEM1AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>		<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>	
1,2,4-Trichloro-benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	102	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H110160 Work Order #...: GMSLK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H160000-392 GMSLK1AD-LCSD
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	10	ug/L	101		SW846 8260B
	10	9.8	ug/L	98	2.7	SW846 8260B
Chlorobenzene	10	10	ug/L	100		SW846 8260B
	10	9.8	ug/L	98	2.2	SW846 8260B
1,1-Dichloroethene	10	12	ug/L	122		SW846 8260B
	10	12	ug/L	123	0.31	SW846 8260B
Toluene	10	10	ug/L	102		SW846 8260B
	10	9.9	ug/L	99	3.0	SW846 8260B
Trichloroethene	10	11	ug/L	106		SW846 8260B
	10	10	ug/L	104	1.1	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
	103	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
	104	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	110	(74 - 116)
	109	(74 - 116)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H110160 Work Order #...: GM8LK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H160000-392 GM8LK1AD-LCSD
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	101	(80 - 116)			SW846 8260B
	98	(80 - 116)	2.7	(0-20)	SW846 8260B
Chlorobenzene	100	(76 - 117)			SW846 8260B
	98	(76 - 117)	2.2	(0-20)	SW846 8260B
1,1-Dichloroethene	122	(63 - 130)			SW846 8260B
	123	(63 - 130)	0.31	(0-20)	SW846 8260B
Toluene	102	(74 - 119)			SW846 8260B
	99	(74 - 119)	3.0	(0-20)	SW846 8260B
Trichloroethene	106	(75 - 122)			SW846 8260B
	104	(75 - 122)	1.1	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
	103	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
	104	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	110	(74 - 116)
	109	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4H110160 Work Order #....: GNFEM1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H180000-527 GNFEM1AD-LCSD
 Prep Date.....: 08/17/04 Analysis Date...: 08/17/04
 Prep Batch #....: 4231527
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE AMOUNT</u>	<u>MEASURED AMOUNT</u>	<u>UNITS</u>	<u>PERCENT RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
Benzene	10	10	ug/L	102		SW846 8260B
	10	10	ug/L	101	0.85	SW846 8260B
Chlorobenzene	10	11	ug/L	108		SW846 8260B
	10	11	ug/L	107	1.6	SW846 8260B
1,1-Dichloroethene	10	11	ug/L	109		SW846 8260B
	10	11	ug/L	106	2.4	SW846 8260B
Toluene	10	11	ug/L	105		SW846 8260B
	10	11	ug/L	108	2.4	SW846 8260B
Trichloroethene	10	11	ug/L	106		SW846 8260B
	10	11	ug/L	108	1.9	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
	102	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
	100	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	112	(74 - 116)
	113	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H110160 Work Order #...: GNFEM1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H180000-527 GNFEM1AD-LCSD
 Prep Date.....: 08/17/04 Analysis Date...: 08/17/04
 Prep Batch #...: 4231527
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	PERCENT	RECOVERY	RPD		<u>METHOD</u>
	<u>RECOVERY</u>	<u>LIMITS</u>	<u>RPD</u>	<u>LIMITS</u>	
Benzene	102	(80 - 116)			SW846 8260B
	101	(80 - 116)	0.85	(0-20)	SW846 8260B
Chlorobenzene	108	(76 - 117)			SW846 8260B
	107	(76 - 117)	1.6	(0-20)	SW846 8260B
1,1-Dichloroethene	109	(63 - 130)			SW846 8260B
	106	(63 - 130)	2.4	(0-20)	SW846 8260B
Toluene	105	(74 - 119)			SW846 8260B
	108	(74 - 119)	2.4	(0-20)	SW846 8260B
Trichloroethene	106	(75 - 122)			SW846 8260B
	108	(75 - 122)	1.9	(0-20)	SW846 8260B

<u>SURROGATE</u>	PERCENT	RECOVERY
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
	102	(73 - 122)
1,2-Dichloroethane-d4	100	(61 - 128)
	100	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	112	(74 - 116)
	113	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H110160 Work Order #...: GMNG11AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4H060441-001 GMNG11AD-MSD
 Date Sampled...: 08/05/04 11:40 Date Received...: 08/06/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 20 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	6.9	200	200	ug/L	98		SW846 8260B
	6.9	200	200	ug/L	97	1.6	SW846 8260B
Chlorobenzene	ND	200	200	ug/L	101		SW846 8260B
	ND	200	200	ug/L	99	2.6	SW846 8260B
1,1-Dichloroethene	ND	200	210	ug/L	104		SW846 8260B
	ND	200	240	ug/L	121	15	SW846 8260B
Toluene	ND	200	200	ug/L	101		SW846 8260B
	ND	200	200	ug/L	101	0.17	SW846 8260B
Trichloroethene	150	200	360	ug/L	105		SW846 8260B
	150	200	360	ug/L	107	0.82	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	105	(73 - 122)
	105	(73 - 122)
1,2-Dichloroethane-d4	105	(61 - 128)
	102	(61 - 128)
Toluene-d8	97	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	107	(74 - 116)
	111	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H110160 Work Order #...: GMNG11AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4H060441-001 GMNG11AD-MSD
 Date Sampled...: 08/05/04 11:40 Date Received...: 08/06/04
 Prep Date.....: 08/14/04 Analysis Date...: 08/14/04
 Prep Batch #...: 4229392
 Dilution Factor: 20 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	98	(78 - 118)			SW846 8260B
	97	(78 - 118)	1.6	(0-20)	SW846 8260B
Chlorobenzene	101	(76 - 117)			SW846 8260B
	99	(76 - 117)	2.6	(0-20)	SW846 8260B
1,1-Dichloroethene	104	(62 - 130)			SW846 8260B
	121	(62 - 130)	15	(0-20)	SW846 8260B
Toluene	101	(70 - 119)			SW846 8260B
	101	(70 - 119)	0.17	(0-20)	SW846 8260B
Trichloroethene	105	(62 - 130)			SW846 8260B
	107	(62 - 130)	0.82	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	105	(73 - 122)
	105	(73 - 122)
1,2-Dichloroethane-d4	105	(61 - 128)
	102	(61 - 128)
Toluene-d8	97	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	107	(74 - 116)
	111	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H110160 Work Order #...: GM01C1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4H120171-001 GM01C1AD-MSD
 Date Sampled...: 08/11/04 10:25 Date Received...: 08/12/04
 Prep Date.....: 08/17/04 Analysis Date...: 08/17/04
 Prep Batch #...: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCNT RECVRY	RPD	METHOD
Benzene	ND	10	11	ug/L	107		SW846 8260B
	ND	10	9.8	ug/L	98	9.1	SW846 8260B
Chlorobenzene	ND	10	11	ug/L	108		SW846 8260B
	ND	10	10	ug/L	102	5.3	SW846 8260B
1,1-Dichloroethene	ND	10	10	ug/L	103		SW846 8260B
	ND	10	10	ug/L	100	2.8	SW846 8260B
Toluene	ND	10	11	ug/L	106		SW846 8260B
	ND	10	10	ug/L	103	3.0	SW846 8260B
Trichloroethene	ND	10	11	ug/L	107		SW846 8260B
	ND	10	10	ug/L	102	5.0	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	103	(73 - 122)
	97	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
	98	(61 - 128)
Toluene-d8	96	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	113	(74 - 116)
	111	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4H110160 Work Order #....: GM01C1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4H120171-001 GM01C1AD-MSD
 Date Sampled....: 08/11/04 10:25 Date Received...: 08/12/04
 Prep Date.....: 08/17/04 Analysis Date...: 08/17/04
 Prep Batch #....: 4231527
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	107	(78 - 118)			SW846 8260B
	98	(78 - 118)	9.1	(0-20)	SW846 8260B
Chlorobenzene	108	(76 - 117)			SW846 8260B
	102	(76 - 117)	5.3	(0-20)	SW846 8260B
1,1-Dichloroethene	103	(62 - 130)			SW846 8260B
	100	(62 - 130)	2.8	(0-20)	SW846 8260B
Toluene	106	(70 - 119)			SW846 8260B
	103	(70 - 119)	3.0	(0-20)	SW846 8260B
Trichloroethene	107	(62 - 130)			SW846 8260B
	102	(62 - 130)	5.0	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	103	(73 - 122)
	97	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
	98	(61 - 128)
Toluene-d8	96	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	113	(74 - 116)
	111	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters



GCMS SEMIVOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-202

GC/MS Semivolatiles

Lot-Sample #...: A4H110160-001 Work Order #...: GMWL41AC Matrix.....: WG
 Date Sampled...: 08/10/04 09:06 Date Received...: 08/11/04
 Prep Date.....: 08/11/04 Analysis Date...: 08/12/04
 Prep Batch #...: 4224403
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.028
Acenaphthylene	ND	5.0	ug/L	0.030
Acetophenone	ND	5.0	ug/L	0.19
Anthracene	ND	5.0	ug/L	0.030
Atrazine	ND	5.0	ug/L	0.36
Benzo (a) anthracene	ND	4.0	ug/L	0.028
Benzo (a) pyrene	ND	4.0	ug/L	0.022
Benzo (b) fluoranthene	ND	4.0	ug/L	0.043
Benzo (ghi) perylene	ND	5.0	ug/L	0.044
Benzo (k) fluoranthene	ND	5.0	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis (2-Chloroethoxy) methane	ND	5.0	ug/L	0.24
bis (2-Chloroethyl) - ether	ND	4.0	ug/L	0.19
bis (2-Ethylhexyl) phthalate	8.6 B	5.0	ug/L	0.36
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.29
Butyl benzyl phthalate	ND	5.0	ug/L	0.14
Caprolactam	ND	10	ug/L	0.73
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	20	ug/L	0.31
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.18
2-Chloronaphthalene	ND	5.0	ug/L	0.29
2-Chlorophenol	ND	5.0	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.21
Chrysene	ND	5.0	ug/L	0.035
Dibenz (a, h) anthracene	ND	4.0	ug/L	0.054
Dibenzofuran	ND	5.0	ug/L	0.025
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	5.0	ug/L	0.12
2,4-Dimethylphenol	ND	5.0	ug/L	0.23
Dimethyl phthalate	ND	5.0	ug/L	0.27
Di-n-butyl phthalate	ND	5.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-202

GC/MS Semivolatiles

Lot-Sample #....: A4H110160-001 Work Order #....: GMWL41AC Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	1.8
2,4-Dinitrophenol	ND	20	ug/L	1.3
2,4-Dinitrotoluene	ND	5.0	ug/L	0.16
2,6-Dinitrotoluene	ND	5.0	ug/L	0.17
Di-n-octyl phthalate	ND	5.0	ug/L	0.16
Fluoranthene	ND	5.0	ug/L	0.024
Fluorene	ND	5.0	ug/L	0.035
Hexachlorobenzene	ND	5.0	ug/L	0.075
Hexachlorobutadiene	ND	5.0	ug/L	0.11
Hexachlorocyclopenta- diene	ND	5.0	ug/L	1.5
Hexachloroethane	ND	5.0	ug/L	0.21
Indeno (1,2,3-cd) pyrene	ND	4.0	ug/L	0.081
Isophorone	ND	5.0	ug/L	0.16
2-Methylnaphthalene	ND	5.0	ug/L	0.028
2-Methylphenol	ND	5.0	ug/L	0.15
4-Methylphenol	ND	5.0	ug/L	0.20
Naphthalene	ND	5.0	ug/L	0.031
2-Nitroaniline	ND	20	ug/L	0.18
3-Nitroaniline	ND	20	ug/L	0.094
4-Nitroaniline	ND	20	ug/L	0.11
Nitrobenzene	ND	4.0	ug/L	0.21
2-Nitrophenol	ND	5.0	ug/L	0.14
4-Nitrophenol	ND	20	ug/L	1.0
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.21
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.18
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.21
Pentachlorophenol	ND	20	ug/L	2.0
Phenanthrene	ND	5.0	ug/L	0.044
Phenol	ND	5.0	ug/L	0.14
Pyrene	ND	5.0	ug/L	0.051
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.13
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.16
	<u>PERCENT</u>	<u>RECOVERY</u>		
<u>SURROGATE</u>	<u>RECOVERY</u>	<u>LIMITS</u>		
Nitrobenzene-d5	71	(32 - 112)		
2-Fluorobiphenyl	62	(30 - 110)		
Terphenyl-d14	86	(10 - 144)		
Phenol-d5	60	(10 - 113)		
2-Fluorophenol	60	(13 - 110)		
2,4,6-Tribromophenol	84	(21 - 122)		

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-202

GC/MS Semivolatiles

Lot-Sample #...: A4H110160-001 Work Order #...: GMWL41AC Matrix.....: WG

NOTE(S):

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-203

GC/MS Semivolatiles

Lot-Sample #....: A4H110160-002 Work Order #....: GMWL61AC Matrix.....: WG
 Date Sampled....: 08/10/04 09:16 Date Received...: 08/11/04
 Prep Date.....: 08/11/04 Analysis Date...: 08/12/04
 Prep Batch #....: 4224403
 Dilution Factor: 1 Initial Wgt/Vol: 1000 mL Final Wgt/Vol...: 2 mL
 Method.....: SW846 8270C

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acenaphthene	ND	5.0	ug/L	0.028
Acenaphthylene	ND	5.0	ug/L	0.030
Acetophenone	ND	5.0	ug/L	0.19
Anthracene	ND	5.0	ug/L	0.030
Atrazine	ND	5.0	ug/L	0.36
Benzo(a)anthracene	ND	4.0	ug/L	0.028
Benzo(a)pyrene	ND	4.0	ug/L	0.022
Benzo(b)fluoranthene	ND	4.0	ug/L	0.043
Benzo(ghi)perylene	ND	5.0	ug/L	0.044
Benzo(k)fluoranthene	ND	5.0	ug/L	0.071
Benzaldehyde	ND	10	ug/L	0.17
1,1'-Biphenyl	ND	10	ug/L	0.30
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	0.24
bis(2-Chloroethyl)- ether	ND	4.0	ug/L	0.19
bis(2-Ethylhexyl) phthalate	ND	5.0	ug/L	0.36
4-Bromophenyl phenyl ether	ND	5.0	ug/L	0.29
Butyl benzyl phthalate	ND	5.0	ug/L	0.14
Caprolactam	ND	10	ug/L	0.73
Carbazole	ND	10	ug/L	0.17
4-Chloroaniline	ND	20	ug/L	0.31
4-Chloro-3-methylphenol	ND	5.0	ug/L	0.18
2-Chloronaphthalene	ND	5.0	ug/L	0.29
2-Chlorophenol	ND	5.0	ug/L	0.14
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	0.21
Chrysene	ND	5.0	ug/L	0.035
Dibenz(a,h)anthracene	ND	4.0	ug/L	0.054
Dibenzofuran	ND	5.0	ug/L	0.025
3,3'-Dichlorobenzidine	ND	4.0	ug/L	0.19
2,4-Dichlorophenol	ND	10	ug/L	0.24
Diethyl phthalate	ND	5.0	ug/L	0.12
2,4-Dimethylphenol	ND	5.0	ug/L	0.23
Dimethyl phthalate	ND	5.0	ug/L	0.27
Di-n-butyl phthalate	ND	5.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081004-DCR-203

GC/MS Semivolatiles

Lot-Sample #...: A4H110160-002 Work Order #...: GMWL61AC Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	1.8
2,4-Dinitrophenol	ND	20	ug/L	1.3
2,4-Dinitrotoluene	ND	5.0	ug/L	0.16
2,6-Dinitrotoluene	ND	5.0	ug/L	0.17
Di-n-octyl phthalate	ND	5.0	ug/L	0.16
Fluoranthene	ND	5.0	ug/L	0.024
Fluorene	ND	5.0	ug/L	0.035
Hexachlorobenzene	ND	5.0	ug/L	0.075
Hexachlorobutadiene	ND	5.0	ug/L	0.11
Hexachlorocyclopenta- diene	ND	5.0	ug/L	1.5
Hexachloroethane	ND	5.0	ug/L	0.21
Indeno (1,2,3-cd) pyrene	ND	4.0	ug/L	0.081
Isophorone	ND	5.0	ug/L	0.16
2-Methylnaphthalene	ND	5.0	ug/L	0.028
2-Methylphenol	ND	5.0	ug/L	0.15
4-Methylphenol	ND	5.0	ug/L	0.20
Naphthalene	ND	5.0	ug/L	0.031
2-Nitroaniline	ND	20	ug/L	0.18
3-Nitroaniline	ND	20	ug/L	0.094
4-Nitroaniline	ND	20	ug/L	0.11
Nitrobenzene	ND	4.0	ug/L	0.21
2-Nitrophenol	ND	5.0	ug/L	0.14
4-Nitrophenol	ND	20	ug/L	1.0
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	0.21
N-Nitrosodiphenylamine	ND	5.0	ug/L	0.18
2,2'-oxybis (1-Chloropropane)	ND	5.0	ug/L	0.21
Pentachlorophenol	ND	20	ug/L	2.0
Phenanthrene	ND	5.0	ug/L	0.044
Phenol	ND	5.0	ug/L	0.14
Pyrene	ND	5.0	ug/L	0.051
2,4,5-Trichloro- phenol	ND	5.0	ug/L	0.13
2,4,6-Trichloro- phenol	ND	4.0	ug/L	0.16

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Nitrobenzene-d5	67	(32 - 112)
2-Fluorobiphenyl	56	(30 - 110)
Terphenyl-d14	82	(10 - 144)
Phenol-d5	65	(10 - 113)
2-Fluorophenol	62	(13 - 110)
2,4,6-Tribromophenol	77	(21 - 122)

METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4H110160
 MB Lot-Sample #: A4H110000-403

Work Order #...: GMXGK1AA

Matrix.....: WATER

Analysis Date...: 08/12/04
 Dilution Factor: 1

Prep Date.....: 08/11/04

Final Wgt/Vol...: 2 mL

Prep Batch #...: 4224403

Initial Wgt/Vol: 1000 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acenaphthene	ND	5.0	ug/L	SW846 8270C
Acenaphthylene	ND	5.0	ug/L	SW846 8270C
Acetophenone	ND	5.0	ug/L	SW846 8270C
Anthracene	ND	5.0	ug/L	SW846 8270C
Atrazine	ND	5.0	ug/L	SW846 8270C
Benzo (a) anthracene	ND	4.0	ug/L	SW846 8270C
Benzo (a) pyrene	ND	4.0	ug/L	SW846 8270C
Benzo (b) fluoranthene	ND	4.0	ug/L	SW846 8270C
Benzo (ghi) perylene	ND	5.0	ug/L	SW846 8270C
Benzo (k) fluoranthene	ND	5.0	ug/L	SW846 8270C
Benzaldehyde	ND	10	ug/L	SW846 8270C
1,1'-Biphenyl	ND	10	ug/L	SW846 8270C
bis(2-Chloroethoxy) methane	ND	5.0	ug/L	SW846 8270C
bis(2-Chloroethyl) - ether	ND	4.0	ug/L	SW846 8270C
bis(2-Ethylhexyl) phthalate	0.77 J	5.0	ug/L	SW846 8270C
4-Bromophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Butyl benzyl phthalate	ND	5.0	ug/L	SW846 8270C
Caprolactam	ND	10	ug/L	SW846 8270C
Carbazole	ND	10	ug/L	SW846 8270C
4-Chloroaniline	ND	20	ug/L	SW846 8270C
4-Chloro-3-methylphenol	ND	5.0	ug/L	SW846 8270C
2-Chloronaphthalene	ND	5.0	ug/L	SW846 8270C
2-Chlorophenol	ND	5.0	ug/L	SW846 8270C
4-Chlorophenyl phenyl ether	ND	5.0	ug/L	SW846 8270C
Chrysene	ND	5.0	ug/L	SW846 8270C
Dibenz (a, h) anthracene	ND	4.0	ug/L	SW846 8270C
Dibenzofuran	ND	5.0	ug/L	SW846 8270C
3,3'-Dichlorobenzidine	ND	4.0	ug/L	SW846 8270C
2,4-Dichlorophenol	ND	10	ug/L	SW846 8270C
Diethyl phthalate	ND	5.0	ug/L	SW846 8270C
2,4-Dimethylphenol	ND	5.0	ug/L	SW846 8270C
Dimethyl phthalate	ND	5.0	ug/L	SW846 8270C
Di-n-butyl phthalate	ND	5.0	ug/L	SW846 8270C
4,6-Dinitro- 2-methylphenol	ND	20	ug/L	SW846 8270C
2,4-Dinitrophenol	ND	20	ug/L	SW846 8270C

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4H110160

Work Order #...: GMXGK1AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		METHOD
		LIMIT	UNITS	
2,4-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
2,6-Dinitrotoluene	ND	5.0	ug/L	SW846 8270C
Di-n-octyl phthalate	ND	5.0	ug/L	SW846 8270C
Fluoranthene	ND	5.0	ug/L	SW846 8270C
Fluorene	ND	5.0	ug/L	SW846 8270C
Hexachlorobenzene	ND	5.0	ug/L	SW846 8270C
Hexachlorobutadiene	ND	5.0	ug/L	SW846 8270C
Hexachlorocyclopenta- diene	ND	5.0	ug/L	SW846 8270C
Hexachloroethane	ND	5.0	ug/L	SW846 8270C
Indeno (1,2,3-cd)pyrene	ND	4.0	ug/L	SW846 8270C
Isophorone	ND	5.0	ug/L	SW846 8270C
2-Methylnaphthalene	ND	5.0	ug/L	SW846 8270C
2-Methylphenol	ND	5.0	ug/L	SW846 8270C
4-Methylphenol	ND	5.0	ug/L	SW846 8270C
Naphthalene	ND	5.0	ug/L	SW846 8270C
2-Nitroaniline	ND	20	ug/L	SW846 8270C
3-Nitroaniline	ND	20	ug/L	SW846 8270C
4-Nitroaniline	ND	20	ug/L	SW846 8270C
Nitrobenzene	ND	4.0	ug/L	SW846 8270C
2-Nitrophenol	ND	5.0	ug/L	SW846 8270C
4-Nitrophenol	ND	20	ug/L	SW846 8270C
N-Nitrosodi-n-propyl- amine	ND	5.0	ug/L	SW846 8270C
N-Nitrosodiphenylamine	ND	5.0	ug/L	SW846 8270C
2,2'-oxybis(1-Chloropropa	ND	5.0	ug/L	SW846 8270C
Pentachlorophenol	ND	20	ug/L	SW846 8270C
Phenanthrene	ND	5.0	ug/L	SW846 8270C
Phenol	ND	5.0	ug/L	SW846 8270C
Pyrene	ND	5.0	ug/L	SW846 8270C
2,4,5-Trichloro- phenol	ND	5.0	ug/L	SW846 8270C
2,4,6-Trichloro- phenol	ND	4.0	ug/L	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	65	(32 - 112)
2-Fluorobiphenyl	55	(30 - 110)
Terphenyl-d14	89	(10 - 144)
Phenol-d5	60	(10 - 113)
2-Fluorophenol	62	(13 - 110)
2,4,6-Tribromophenol	64	(21 - 122)

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METHOD BLANK REPORT

GC/MS Semivolatiles

Client Lot #...: A4H110160

Work Order #...: GMXGK1AA

Matrix.....: WATER

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Semivolatiles

Client Lot #....: A4H110160 Work Order #....: GMXGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H110000-403 GMXGK1AD-LCSD
 Prep Date.....: 08/11/04 Analysis Date...: 08/12/04
 Prep Batch #....: 4224403
 Dilution Factor: 1 Final Wgt/Vol...: 2 mL
 Initial Wgt/Vol: 1000 mL

PARAMETER	SPIKE	MEASURED	UNITS	PERCENT	RPD	METHOD
	AMOUNT	AMOUNT		RECOVERY		
Acenaphthene	20	15	ug/L	77		SW846 8270C
	20	15	ug/L	75	2.1	SW846 8270C
1,2,4-Trichloro- benzene	20	9.3	ug/L	46		SW846 8270C
	20	9.1	ug/L	45	2.2	SW846 8270C
1,4-Dichlorobenzene	20	10	ug/L	50		SW846 8270C
	20	9.8	ug/L	49	1.2	SW846 8270C
4-Chloro-3-methylphenol	20	15	ug/L	76		SW846 8270C
	20	15	ug/L	73	3.5	SW846 8270C
2-Chlorophenol	20	15	ug/L	76		SW846 8270C
	20	15	ug/L	75	1.1	SW846 8270C
2,4-Dinitrotoluene	20	16	ug/L	78		SW846 8270C
	20	16	ug/L	78	0.36	SW846 8270C
4-Nitrophenol	20	14	ug/L	70		SW846 8270C
	20	14	ug/L	68	2.7	SW846 8270C
N-Nitrosodi-n-propyl- amine	20	16	ug/L	79		SW846 8270C
	20	16	ug/L	79	0.70	SW846 8270C
Pentachlorophenol	20	17	ug/L	86		SW846 8270C
	20	17	ug/L	83	2.6	SW846 8270C
Phenol	20	15	ug/L	74		SW846 8270C
	20	15	ug/L	74	0.090	SW846 8270C
Pyrene	20	17	ug/L	83		SW846 8270C
	20	16	ug/L	82	1.6	SW846 8270C

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Nitrobenzene-d5	83	(32 - 112)
	82	(32 - 112)
2-Fluorobiphenyl	77	(30 - 110)
	75	(30 - 110)
Terphenyl-d14	86	(10 - 144)
	85	(10 - 144)
Phenol-d5	81	(10 - 113)
	80	(10 - 113)
2-Fluorophenol	82	(13 - 110)
	80	(13 - 110)

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LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Semivolatiles

Client Lot #....: A4H110160 Work Order #....: GMXGK1AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H110000-403 GMXGK1AD-LCSD
 Prep Date.....: 08/11/04 Analysis Date...: 08/12/04
 Prep Batch #....: 4224403
 Dilution Factor: 1 Final Wgt/Vol...: 2 mL
 Initial Wgt/Vol: 1000 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Acenaphthene	77	(39 - 118)			SW846 8270C
	75	(39 - 118)	2.1	(0-35)	SW846 8270C
1,2,4-Trichloro- benzene	46	(31 - 110)			SW846 8270C
	45	(31 - 110)	2.2	(0-37)	SW846 8270C
1,4-Dichlorobenzene	50	(28 - 110)			SW846 8270C
	49	(28 - 110)	1.2	(0-36)	SW846 8270C
4-Chloro-3-methylphenol	76	(29 - 124)			SW846 8270C
	73	(29 - 124)	3.5	(0-55)	SW846 8270C
2-Chlorophenol	76	(19 - 124)			SW846 8270C
	75	(19 - 124)	1.1	(0-43)	SW846 8270C
2,4-Dinitrotoluene	78	(47 - 131)			SW846 8270C
	78	(47 - 131)	0.36	(0-32)	SW846 8270C
4-Nitrophenol	70	(19 - 144)			SW846 8270C
	68	(19 - 144)	2.7	(0-34)	SW846 8270C
N-Nitrosodi-n-propyl- amine	79	(30 - 115)			SW846 8270C
	79	(30 - 115)	0.70	(0-36)	SW846 8270C
Pentachlorophenol	86	(10 - 140)			SW846 8270C
	83	(10 - 140)	2.6	(0-56)	SW846 8270C
Phenol	74	(10 - 131)			SW846 8270C
	74	(10 - 131)	0.090	(0-43)	SW846 8270C
Pyrene	83	(46 - 130)			SW846 8270C
	82	(46 - 130)	1.6	(0-31)	SW846 8270C

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Nitrobenzene-d5	83	(32 - 112)
	82	(32 - 112)
2-Fluorobiphenyl	77	(30 - 110)
	75	(30 - 110)
Terphenyl-d14	86	(10 - 144)
	85	(10 - 144)
Phenol-d5	81	(10 - 113)
	80	(10 - 113)
2-Fluorophenol	82	(13 - 110)
	80	(13 - 110)

(Continued on next page)

END OF REPORT

REC'D CRA
SEP 13 2004
G-26

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM GRAND RAPIDS

Lot #: A4H120238

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4H120238

Name: GM GR

Description

SEVERN TRENT LABORATORIES, INC

Event: Quarterly GW

Samples: 15 water

Analysis: TCL VOC

TAT: STD - 21

Lab: STL

for
Dmy McCormick

Kenneth J. Kuzior Checked Against Preliminary Data:
Project Manager

Date: _____ Init.: KAK

Date of Validation Memo: 10/20/04

Invoice Approval Date: _____

September 8, 2004 Comments: _____

CASE NARRATIVE

CASE NARRATIVE

A4H120238

The following report contains the analytical results for fourteen water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM Grand Rapids Site, project number 17360-09. The samples were received August 12, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Ken J. Kuzior, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 2.9°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225),
Illinois (#100439), Kansas (#E10336), Louisiana (#04112), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CLO024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



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STL

***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4H120238

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-081104-DCR-218 08/11/04 08:31 001				
Acetone	2.1 J	25	ug/L	SW846 8260B
GW-17360-081104-DCR-220 08/11/04 09:56 003				
Acetone	1.7 J	25	ug/L	SW846 8260B
Benzene	0.27 J,B	1.0	ug/L	SW846 8260B
Chloroform	0.44 J	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-221 08/11/04 09:30 004				
Bromodichloromethane	0.43 J	1.0	ug/L	SW846 8260B
Chloroform	2.9	1.0	ug/L	SW846 8260B
Methyl tert-butyl ether	0.25 J	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.53 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.8	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-222 08/11/04 11:56 005				
Acetone	1.7 J	50	ug/L	SW846 8260B
1,1-Dichloroethene	0.73 J	2.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	48	2.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	0.64 J	2.0	ug/L	SW846 8260B
Methylene chloride	1.0 J,B	10	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.57 J	2.0	ug/L	SW846 8260B
Trichloroethene	30	2.0	ug/L	SW846 8260B
Vinyl chloride	1.0 J	2.0	ug/L	SW846 8260B
GW-17360-081104-DCR-223 08/11/04 10:46 006				
Benzene	0.41 J,B	1.0	ug/L	SW846 8260B
Trichloroethene	1.5	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-224 08/11/04 12:21 007				
Chloroform	2.2	1.0	ug/L	SW846 8260B
Trichloroethene	0.39 J	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-225 08/11/04 14:21 008				
Bromodichloromethane	2.1	1.0	ug/L	SW846 8260B
Chloroform	12	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.33 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.8	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4H120238

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
GW-17360-081104-DCR-226 08/11/04 14:11 009				
1,1-Dichloroethane	0.88 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.65 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.82 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.38 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	1.4	1.0	ug/L	SW846 8260B
Trichloroethene	33	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-227 08/11/04 15:46 010				
Acetone	0.84 J	25	ug/L	SW846 8260B
Bromodichloromethane	1.5	1.0	ug/L	SW846 8260B
Chloroform	10	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.26 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.46 J	1.0	ug/L	SW846 8260B
Trichloroethene	5.9	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-228 08/11/04 15:21 011				
Acetone	2.7 J	25	ug/L	SW846 8260B
Benzene	0.22 J, B	1.0	ug/L	SW846 8260B
Bromodichloromethane	0.24 J	1.0	ug/L	SW846 8260B
Chloroform	1.2	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.51 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.54 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.91 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.54 J	1.0	ug/L	SW846 8260B
Trichloroethene	2.2	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-229 08/11/04 16:10 012				
Acetone	1.6 J	25	ug/L	SW846 8260B
Benzene	0.31 J, B	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	5.4	1.0	ug/L	SW846 8260B
Tetrachloroethene	4.6	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	0.51 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.7	1.0	ug/L	SW846 8260B
Vinyl chloride	0.94 J	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-230 08/11/04 16:20 013				
Acetone	2.5 J	25	ug/L	SW846 8260B
cis-1,2-Dichloroethene	3.1	1.0	ug/L	SW846 8260B
Tetrachloroethene	1.8	1.0	ug/L	SW846 8260B

(Continued on next page)

EXECUTIVE SUMMARY - Detection Highlights

A4H120238

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-081104-DCR-230 08/11/04 16:20 013				
1,1,1-Trichloroethane	0.29 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
Vinyl chloride	0.36 J	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-231 08/11/04 16:35 014				
Acetone	2.1 J	25	ug/L	SW846 8260B
Bromodichloromethane	0.24 J	1.0	ug/L	SW846 8260B
Bromoform	0.75 J	1.0	ug/L	SW846 8260B
Chloroform	0.31 J	1.0	ug/L	SW846 8260B
Dibromochloromethane	0.26 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.42 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	2.8	1.0	ug/L	SW846 8260B
Trichloroethene	0.50 J	1.0	ug/L	SW846 8260B
GW-17360-081104-DCR-232 08/11/04 015				
Acetone	11 J	25	ug/L	SW846 8260B
Benzene	0.38 J,B	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	0.44 J	1.0	ug/L	SW846 8260B
Methylene chloride	4.0 J,B	5.0	ug/L	SW846 8260B
Toluene	0.18 J	1.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4HL20238

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4H120238

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GM1JA	001	GW-17360-081104-DCR-218	08/11/04	08:31
GM1JH	002	GW-17360-081104-DCR-219	08/11/04	09:01
GM1JJ	003	GW-17360-081104-DCR-220	08/11/04	09:56
GM1JK	004	GW-17360-081104-DCR-221	08/11/04	09:30
GM1JL	005	GW-17360-081104-DCR-222	08/11/04	11:56
GM1JM	006	GW-17360-081104-DCR-223	08/11/04	10:46
GM1JN	007	GW-17360-081104-DCR-224	08/11/04	12:21
GM1JP	008	GW-17360-081104-DCR-225	08/11/04	14:21
GM1JQ	009	GW-17360-081104-DCR-226	08/11/04	14:11
GM1JR	010	GW-17360-081104-DCR-227	08/11/04	15:46
GM1JT	011	GW-17360-081104-DCR-228	08/11/04	15:21
GM1JV	012	GW-17360-081104-DCR-229	08/11/04	16:10
GM1JW	013	GW-17360-081104-DCR-230	08/11/04	16:20
GM1JX	014	GW-17360-081104-DCR-231	08/11/04	16:35
GM1JO	015	GW-17360-081104-DCR-232	08/11/04	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17360-09

PROJECT NAME: GM Grand Rapids

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: David C. Ruess

SEQ. No.	DATE	TIME	SAMPLE TYPE	NO. OF CONTAINERS	PARAMETERS	REMARKS
1	8/11/09	831	GM-17360-081109-D-CL-218	3	TEL VOL	
2		901		3	ST DIRT	
3		956		3		
4		935		3		
5		156		3		
6		1040		3		
7		1221		3		
8		1421		3		
9		1411		3		
10		1536		9		ms/MSD
11		1524		3		
12		1610		3		
13		1620		3		
14		1635		3		
15		1635		1		CRA Contact Paul Wiseman

TOTAL NUMBER OF CONTAINERS

RELINQUISHED BY: *[Signature]* DATE: 8-11-09 TIME: 1805 RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____ DATE: _____ TIME: _____

RELINQUISHED BY: _____ DATE: _____ TIME: _____ RECEIVED BY: _____ DATE: _____ TIME: _____

METHOD OF SHIPMENT: FED EX

AIR BILL NO. 8393 55888810

White - Fully Executed Copy
 Yellow - Receiving Laboratory Copy
 Pink - Goldenrod - Sampler Copy

SAMPLE TEAM: David Ruess
 Bryan Miller

RECEIVED FOR LABORATORY BY: *[Signature]*
 DATE: 8-12-09 TIME: 0850

Severn Trent Laboratories, Inc.
Sample Control Record

RSR280
Client: 57787
Lot #: AAH120238
Case Number/SDS: 17360-09
Storage Location: MS

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GM1JA	STILLERJ	8/12/04	Yes		Storage	
GM1JH	STILLERJ	8/12/04	Yes		Storage	
GM1JJ	STILLERJ	8/12/04	Yes		Storage	
GM1JK	STILLERJ	8/12/04	Yes		Storage	
GM1JL	STILLERJ	8/12/04	Yes		Storage	
GM1JM	STILLERJ	8/12/04	Yes		Storage	
GM1JN	STILLERJ	8/12/04	Yes		Storage	
GM1JP	STILLERJ	8/12/04	Yes		Storage	
GM1JQ	STILLERJ	8/12/04	Yes		Storage	
GM1JR	STILLERJ	8/12/04	Yes		Storage	
GM1JT	STILLERJ	8/12/04	Yes		Storage	
GM1JV	STILLERJ	8/12/04	Yes		Storage	
GM1JW	STILLERJ	8/12/04	Yes		Storage	
GM1JX	STILLERJ	8/12/04	Yes		Storage	
GM1JO	STILLERJ	8/12/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: 44H120238

Client: CRA Project: GM Grand Rapids Quote#: 50154
 Cooler Received on: 8-12-04 Opened on: 8-12-04 by: Angelo Matthe
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____
 STL Cooler No# _____ Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Did custody papers accompany the samples? Yes No Relinquished by client? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 2.9 °C (see back of form for multiple coolers/temp)
- METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other

Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #052804-HNO₃; Sulfuric Acid Lot # 011-504-H₂SO₄; Sodium Hydroxide Lot # -031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-218

GC/MS Volatiles

Lot-Sample #....: A4H120238-001 Work Order #....: GM1JA1AA Matrix.....: WG
 Date Sampled....: 08/11/04 08:31 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	2.1 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-218

GC/MS Volatiles

Lot-Sample #....: A4H120238-001 Work Order #....: GM1JA1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	104	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-219

GC/MS Volatiles

Lot-Sample #....: A4H120238-002 Work Order #....: GM1JH1AA Matrix.....: WG
 Date Sampled....: 08/11/04 09:01 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-219

GC/MS Volatiles

Lot-Sample #...: A4H120238-002 Work Order #...: GMLJH1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	105	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-220

GC/MS Volatiles

Lot-Sample #...: A4H120238-003 Work Order #...: GM1JJ1AA Matrix.....: WG
 Date Sampled...: 08/11/04 09:56 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #...: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.7 J	25	ug/L	0.74
Benzene	0.27 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	0.44 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-220

GC/MS Volatiles

Lot-Sample #....: A4H120238-003 Work Order #....: GM1JJ1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	103	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-221

GC/MS Volatiles

Lot-Sample #....: A4H120238-004 Work Order #....: GM1JK1AA Matrix.....: WG
 Date Sampled...: 08/11/04 09:30 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	0.43 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	2.9	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	0.25 J	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-221

GC/MS Volatiles

Lot-Sample #....: A4H120238-004 Work Order #....: GM1JK1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.53 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	1.8	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	102	(61 - 128)
Toluene-d8	95	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-222

GC/MS Volatiles

Lot-Sample #....: A4H120238-005 Work Order #....: GM1JL1AA Matrix.....: WG
 Date Sampled....: 08/11/04 11:56 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 2 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	1.7 J	50	ug/L	1.5
Benzene	ND	2.0	ug/L	0.44
Bromodichloromethane	ND	2.0	ug/L	0.28
Bromoform	ND	2.0	ug/L	0.34
Bromomethane	ND	2.0	ug/L	0.72
2-Butanone	ND	50	ug/L	0.78
Carbon disulfide	ND	10	ug/L	0.56
Carbon tetrachloride	ND	2.0	ug/L	0.38
Chlorobenzene	ND	2.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.48
Chloroform	ND	2.0	ug/L	0.32
Chloromethane	ND	2.0	ug/L	0.28
Cyclohexane	ND	2.0	ug/L	0.24
Dibromochloromethane	ND	2.0	ug/L	0.38
1,2-Dibromo-3-chloro- propane	ND	2.0	ug/L	0.56
1,2-Dibromoethane	ND	2.0	ug/L	0.48
1,2-Dichlorobenzene	ND	2.0	ug/L	0.40
1,3-Dichlorobenzene	ND	2.0	ug/L	0.36
1,4-Dichlorobenzene	ND	2.0	ug/L	0.44
Dichlorodifluoromethane	ND	2.0	ug/L	0.50
1,1-Dichloroethane	ND	2.0	ug/L	0.42
1,2-Dichloroethane	ND	2.0	ug/L	0.32
1,1-Dichloroethene	0.73 J	2.0	ug/L	0.36
cis-1,2-Dichloroethene	48	2.0	ug/L	0.42
trans-1,2-Dichloroethene	0.64 J	2.0	ug/L	0.32
1,2-Dichloropropane	ND	2.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	2.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	2.0	ug/L	0.34
Ethylbenzene	ND	2.0	ug/L	0.38
2-Hexanone	ND	100	ug/L	0.70
Isopropylbenzene	ND	10	ug/L	0.30
Methyl acetate	ND	20	ug/L	1.0
Methylene chloride	1.0 J,B	10	ug/L	0.38
Methylcyclohexane	ND	2.0	ug/L	1.0
4-Methyl-2-pentanone	ND	100	ug/L	0.64
Methyl tert-butyl ether	ND	10	ug/L	0.36
Styrene	ND	2.0	ug/L	0.26

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-222

GC/MS Volatiles

Lot-Sample #...: A4H120238-005 Work Order #...: GM1JL1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.44
Tetrachloroethene	ND	2.0	ug/L	0.38
Toluene	ND	2.0	ug/L	0.34
1,2,4-Trichloro- benzene	ND	10	ug/L	0.38
1,1,1-Trichloroethane	0.57 J	2.0	ug/L	0.42
1,1,2-Trichloroethane	ND	2.0	ug/L	0.44
Trichloroethene	30	2.0	ug/L	0.56
Trichlorofluoromethane	ND	2.0	ug/L	0.32
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	2.0	ug/L	0.52
Vinyl chloride	1.0 J	2.0	ug/L	0.42
Xylenes (total)	ND	6.0	ug/L	0.88

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	105	(61 - 128)
Toluene-d8	96	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-223

GC/MS Volatiles

Lot-Sample #....: A4H120238-006 Work Order #....: GM1JM1AA Matrix.....: WG
 Date Sampled...: 08/11/04 10:46 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	0.41 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-223

GC/MS Volatiles

Lot-Sample #...: A4H120238-006 Work Order #...: GM1JM1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	1.5	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	101	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-224

GC/MS Volatiles

Lot-Sample #...: A4H120238-007 Work Order #...: GM1JUN1AA Matrix.....: WG
 Date Sampled...: 08/11/04 12:21 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #...: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	2.2	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-224

GC/MS Volatiles

Lot-Sample #...: A4H120238-007 Work Order #...: GM1JN1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.39 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	103	(73 - 122)
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-225

GC/MS Volatiles

Lot-Sample #....: A4H120238-008 Work Order #....: GM1JP1AA Matrix.....: WG
 Date Sampled...: 08/11/04 14:21 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	2.1	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	12	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-225

GC/MS Volatiles

Lot-Sample #...: A4H120238-008 Work Order #...: GM1JP1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.33 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	2.8	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	107	(73 - 122)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE (S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-226

GC/MS Volatiles

Lot-Sample #...: A4H120238-009 Work Order #...: GM1JQ1AA Matrix.....: WG
 Date Sampled...: 08/11/04 14:11 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #...: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	0.88 J	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	0.65 J	1.0	ug/L	0.18
cis-1,2-Dichloroethene	0.82 J	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-226

GC/MS Volatiles

Lot-Sample #....: A4H120238-009 Work Order #....: GM1JQ1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethane	0.38 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	1.4	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethane	33	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44
	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
<u>SURROGATE</u>				
Dibromofluoromethane	103	(73 - 122)		
1,2-Dichloroethane-d4	103	(61 - 128)		
Toluene-d8	95	(76 - 110)		
4-Bromofluorobenzene	96	(74 - 116)		

NOTE (S) :

J Estimated result. Result is less than RL.

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-227

GC/MS Volatiles

Lot-Sample #....: A4H120238-010 Work Order #....: GM1JR1AA Matrix.....: WG
 Date Sampled...: 08/11/04 15:46 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	0.84 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	1.5	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	10	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	0.26 J	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-227

GC/MS Volatiles

Lot-Sample #....: A4H120238-010 Work Order #....: GM1JR1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethane	0.46 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethane	5.9	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	107	(73 - 122)
1,2-Dichloroethane-d4	111	(61 - 128)
Toluene-d8	93	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-228

GC/MS Volatiles

Lot-Sample #....: A4H120238-011 Work Order #....: GM1JT1AA Matrix.....: WG
 Date Sampled...: 08/11/04 15:21 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	2.7 J	25	ug/L	0.74
Benzene	0.22 J,B	1.0	ug/L	0.22
Bromodichloromethane	0.24 J	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	1.2	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	0.51 J	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	0.54 J	1.0	ug/L	0.18
cis-1,2-Dichloroethene	0.91 J	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-228

GC/MS Volatiles

Lot-Sample #...: A4H120238-011 Work Order #...: GMLJT1AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethane	0.54 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethane	2.2	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	106	(73 - 122)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	98	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-229

GC/MS Volatiles

Lot-Sample #...: A4H120238-012 Work Order #...: GM1JVI1AA Matrix.....: WG
 Date Sampled...: 08/11/04 16:10 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #...: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	1.6 J	25	ug/L	0.74
Benzene	0.31 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	5.4	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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COMESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-229

GC/MS Volatiles

Lot-Sample #...: A4H120238-012 Work Order #...: GM1JV1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	4.6	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.51 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	1.7	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	0.94 J	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	109	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-230

GC/MS Volatiles

Lot-Sample #....: A4H120238-013 Work Order #....: GM1JW1AA Matrix.....: WG
 Date Sampled....: 08/11/04 16:20 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	2.5 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	3.1	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-230

GC/MS Volatiles

Lot-Sample #...: A4H120238-013 Work Order #...: GM1JW1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	1.8	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	0.29 J	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	1.6	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	0.36 J	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	106	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	97	(74 - 116)

NOTE (S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-231

GC/MS Volatiles

Lot-Sample #...: A4H120238-014 Work Order #...: GM1JX1AA Matrix.....: WG
 Date Sampled...: 08/11/04 16:35 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #...: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	2.1 J	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	0.24 J	1.0	ug/L	0.14
Bromoform	0.75 J	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	0.31 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	0.26 J	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	0.42 J	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-231

GC/MS Volatiles

Lot-Sample #...: A4H120238-014 Work Order #...: GM1JX1AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	2.8	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro-benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	0.50 J	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	105	(73 - 122)
1,2-Dichloroethane-d4	111	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	100	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-232

GC/MS Volatiles

Lot-Sample #...: A4H120238-015 Work Order #...: GMLJ01AA Matrix.....: WQ
 Date Sampled...: 08/11/04 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #...: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	11 J	25	ug/L	0.74
Benzene	0.38 J,B	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	0.44 J	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	4.0 J,B	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081104-DCR-232

GC/MS Volatiles

Lot-Sample #...: A4H120238-015 Work Order #...: GM1J01AA Matrix.....: WQ

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	0.18 J	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	105	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	99	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H120238
 MB Lot-Sample #: A4H240000-671

Work Order #...: GNXP71AA

Matrix.....: WATER

Analysis Date...: 08/21/04
 Dilution Factor: 1

Prep Date.....: 08/21/04

Final Wgt/Vol...: 5 mL

Prep Batch #...: 4237671

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	ND	25	ug/L	SW846 8260B
Benzene	0.24 J	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	ND	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	0.48 J	5.0	ug/L	SW846 8260B
Methylcyclohexane	ND	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H120238

Work Order #...: GNXP71AA

Matrix.....: WATER

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
1,2,4-Trichloro- benzene	ND	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	101	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	95	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H120238 Work Order #...: GNXP71AC Matrix.....: WATER
 LCS Lot-Sample#: A4H240000-671
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #...: 4237671
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Benzene	10	9.6	ug/L	96	SW846 8260B
Chlorobenzene	10	10	ug/L	101	SW846 8260B
1,1-Dichloroethene	10	9.5	ug/L	95	SW846 8260B
Toluene	10	10	ug/L	100	SW846 8260B
Trichloroethene	10	11	ug/L	106	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	107	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	112	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4H120238 Work Order #....: GNXP71AC Matrix.....: WATER
 LCS Lot-Sample#: A4H240000-671
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	96	(80 - 116)	SW846 8260B
Chlorobenzene	101	(76 - 117)	SW846 8260B
1,1-Dichloroethene	95	(63 - 130)	SW846 8260B
Toluene	100	(74 - 119)	SW846 8260B
Trichloroethene	106	(75 - 122)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	102	(73 - 122)
1,2-Dichloroethane-d4	107	(61 - 128)
Toluene-d8	100	(76 - 110)
4-Bromofluorobenzene	112	(74 - 116)

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #....: A4H120238 Work Order #....: GM1JR1AC-MS Matrix.....: WG
 MS Lot-Sample #: A4H120238-010 GM1JR1AD-MSD
 Date Sampled...: 08/11/04 15:46 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #....: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	ND	10	10	ug/L	99		SW846 8260B
	ND	10	9.9	ug/L	97	2.0	SW846 8260B
Chlorobenzene	ND	10	9.5	ug/L	95		SW846 8260B
	ND	10	9.6	ug/L	96	1.7	SW846 8260B
1,1-Dichloroethene	ND	10	9.4	ug/L	94		SW846 8260B
	ND	10	10	ug/L	102	8.4	SW846 8260B
Toluene	ND	10	9.3	ug/L	93		SW846 8260B
	ND	10	9.7	ug/L	97	4.2	SW846 8260B
Trichloroethene	5.9	10	16	ug/L	98		SW846 8260B
	5.9	10	15	ug/L	95	1.9	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	104	(73 - 122)
	103	(73 - 122)
1,2-Dichloroethane-d4	107	(61 - 128)
	109	(61 - 128)
Toluene-d8	95	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	105	(74 - 116)
	107	(74 - 116)

NOTE (S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #...: A4H120238 Work Order #...: GM1JRLAC-MS Matrix.....: WG
 MS Lot-Sample #: A4H120238-010 GM1JRLAD-MSD
 Date Sampled...: 08/11/04 15:46 Date Received...: 08/12/04
 Prep Date.....: 08/21/04 Analysis Date...: 08/21/04
 Prep Batch #...: 4237671
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	99	(78 - 118)			SW846 8260B
	97	(78 - 118)	2.0	(0-20)	SW846 8260B
Chlorobenzene	95	(76 - 117)			SW846 8260B
	96	(76 - 117)	1.7	(0-20)	SW846 8260B
1,1-Dichloroethene	94	(62 - 130)			SW846 8260B
	102	(62 - 130)	8.4	(0-20)	SW846 8260B
Toluene	93	(70 - 119)			SW846 8260B
	97	(70 - 119)	4.2	(0-20)	SW846 8260B
Trichloroethene	98	(62 - 130)			SW846 8260B
	95	(62 - 130)	1.9	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	104	(73 - 122)
	103	(73 - 122)
1,2-Dichloroethane-d4	107	(61 - 128)
	109	(61 - 128)
Toluene-d8	95	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	105	(74 - 116)
	107	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

END OF REPORT

LABORATORY REPORT COMPLIANCE ASSESSMENT FORM

CRA Project #: <u>17360-09</u>	Laboratory: <u>STL</u>	Date Prelims Rec'd: <u> </u>
CRA SDG ID: <u>G-26</u>	Lab Report #: <u>A4H120238</u>	Date Final Rec'd: <u>9/13</u>
Validation Memo Required: Compliance <input type="checkbox"/> Summary Validation <input checked="" type="checkbox"/> Full Validation <input type="checkbox"/>		

3. Sample Receipt

COC Record: A Complete Incomplete CRA Non CRA COC was included with the samples.
 Changes or corrections are noted on the attached COC, which was forwarded to the laboratory.

Comments: _____

Sample shipping/receiving issues: None Issues: _____

4. Laboratory Reporting

	Yes	No	Comments
Sample IDs consistent with COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Parameters as designated on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Analytical methods acceptable:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Parameter analyte list correct:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Report limits acceptable:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Results consistent with preliminary data:	<input type="checkbox"/>	<input type="checkbox"/>	_____

5. Laboratory Performance

	Yes	No	Comments
Sample holding times met:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	_____
Requested turnaround time(s) (TAT) met:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____
Method blanks reported non-detect:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<u>VOC</u>
Final report received on time:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	_____

6. Report Deliverables

	No. of Copies	Acceptable	Comments
QC Summary Report:	<u>1</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____
Expanded Report:	<u>1</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____
Electronic (PDF) Report:	Received: <u>9/12</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____
EDDs (EquIS):	Received: <u>9/12</u>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	_____
Estimated (J) values with MDLs reported:		<input type="checkbox"/> Yes <input type="checkbox"/> No	_____
Report Comments:	_____		

Additional comments and notes: _____

REC'D CRA
SEP 13 2004
G-27

STL North Canton
4101 Shuffel Drive NW
North Canton, OH 44720

Tel: 330 497 9396 Fax: 330 497 0772
www.stl-inc.com

ANALYTICAL REPORT

PROJECT NO. 17360-09

GM-GRAND RAPIDS

Lot #: A4H130229

Paul Wiseman

Conestoga Rovers & Assoc., Inc
14496 Sheldon Rd Suite 200
Plymouth, MI 48170

ORIGINAL ANALYTICAL REPORT

Project#: 17360-09 Lab#: A4H130229
Name: GM GR

SEVERN TRENT LABORATORIES, INC
Description
Event: Quarterly GW
Samples: S water
Analysis: TCL VOC

for Chris McCormick TAT: 21 STD
Kenneth J. Kuzior Lab: STL
Project Manager

Checked Against Preliminary Data:
Date: — Init.: KAK

Date of Validation Memo: 10/20/04

Invoice Approval Date: —

September 8, 2004 Comments: —

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
14496 Sheldon Road, Suite 200
Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL - North Canton

REFERENCE NUMBER:

17360-09

PROJECT NAME: GM - Grand Rapids

CHAIN OF CUSTODY RECORD

SAMPLER'S SIGNATURE:  PRINTED NAME: David C. Rivers

PARAMETERS

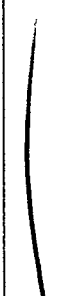
TC, Yels
STP TRT

CONTAINERS

NO OF

SEQ. No.	DATE	TIME	CONTAINERS	SAMPLE TYPE	REMARKS
1	8/17/04	9a	3	1420	
2	"	906	3	-239	
3	"	916	3	-235	
4	"	1056	3	-236	
5	"	-	1	-237	
TOTAL NUMBER OF CONTAINERS 13					

CRA Contact
Paul Wiseman

RELINQUISHED BY: 

DATE: 8-12-04
TIME: 1530

RECEIVED BY: 1.

DATE: _____
TIME: _____

RELINQUISHED BY: 2.

DATE: _____
TIME: _____

RECEIVED BY: 2.

DATE: _____
TIME: _____

RELINQUISHED BY: 3.

DATE: _____
TIME: _____

RECEIVED BY: 1.

DATE: _____
TIME: _____

METHOD OF SHIPMENT: FED EX

AIR BILL No. 6741 0644 1240

White - Fully Executed Copy
Yellow - Receiving Laboratory Copy

SAMPLE TEAM:

David Rivers

RECEIVED FOR LABORATORY BY:



27166

DATE: 8-13-04 TIME: 0940

CASE NARRATIVE

CASE NARRATIVE

A4H130229

The following report contains the analytical results for four water samples and one quality control sample submitted to STL North Canton by Conestoga-Rovers & Associates, Inc. from the GM-Grand Rapids Site, project number 17360-09. The samples were received August 13, 2004, according to documented sample acceptance procedures.

STL utilizes USEPA approved methods in all analytical work. The samples presented in this report were analyzed for the parameter(s) listed on the analytical methods summary page in accordance with the method(s) indicated. A summary of QC data for these analyses is included at the back of the report.

STL North Canton attests to the validity of the laboratory data generated by STL facilities reported herein. All analyses performed by STL facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the applicable methods. STL's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

If you have any questions, please call the Project Manager, Ken J. Kuzior, at 330-497-9396.

This report is sequentially paginated. The final page of the report is labeled as "END OF REPORT."

SUPPLEMENTAL QC INFORMATION

SAMPLE RECEIVING

The temperature of the cooler upon sample receipt was 5.0°C.

CASE NARRATIVE (continued)

GC/MS VOLATILES

The sample(s) that contained concentrations of target analyte(s) at a reportable level in the associated Method Blank(s) were flagged with "B". All target analytes in the Method Blank must be below the reporting limit (RL) or the associated sample(s) must be ND with the exception of common laboratory contaminants.

The sample(s) that contain results between the MDL and the RL were flagged with "J". There is a possibility of false positive or mis-identification at these quantitation levels. In analytical methods requiring confirmation of the analyte reported, confirmation was performed only down to the standard reporting limit (SRL). The acceptance criteria for QC samples may not be met at these quantitation levels.

QUALITY CONTROL ELEMENTS OF SW-846 METHODS

STL North Canton conducts a quality assurance/quality control (QA/QC) program designed to provide scientifically valid and legally defensible data. Toward this end, several types of quality control indicators are incorporated into the QA/QC program, which is described in detail in QA Policy, QA-003. These indicators are introduced into the sample testing process to provide a mechanism for the assessment of the analytical data.

QC BATCH

Environmental samples are taken through the testing process in groups called QUALITY CONTROL BATCHES (QC batches). A QC batch contains up to twenty environmental samples of a similar matrix (water, soil) that are processed using the same reagents and standards. STL North Canton requires that each environmental sample be associated with a QC batch.

Several quality control samples are included in each QC batch and are processed identically to the twenty environmental samples. These QC samples include a METHOD BLANK (MB), a LABORATORY CONTROL SAMPLE (LCS) and, where appropriate, a MATRIX SPIKE/MATRIX SPIKE DUPLICATE (MS/MSD) pair or a MATRIX SPIKE/SAMPLE DUPLICATE (MS/DU) pair. If there is insufficient sample to perform an MS/MSD or an MS/DU, then a LABORATORY CONTROL SAMPLE DUPLICATE (LCSD) is included in the QC batch.

LABORATORY CONTROL SAMPLE

The Laboratory Control Sample is a QC sample that is created by adding known concentrations of a full or partial set of target analytes to a matrix similar to that of the environmental samples in the QC batch. The LCS analyte recovery results are used to monitor the analytical process and provide evidence that the laboratory is performing the method within acceptable guidelines. All control analytes indicated by a bold type in the LCS must meet acceptance criteria. Failure to meet the established recovery guidelines requires the reparation and reanalysis of all samples in the QC batch. The only exception is that if the LCS recoveries are biased high and the associated sample is ND (non-detected) for the parameter(s) of interest, the batch is acceptable.

At times, a Laboratory Control Sample Duplicate (LCSD) is also included in the QC batch. An LCSD is a QC sample that is created and handled identically to the LCS. Analyte recovery data from the LCSD is assessed in the same way as that of the LCS. The LCSD recoveries, together with the LCS recoveries, are used to determine the reproducibility (precision) of the analytical system. Precision data are expressed as relative percent differences (RPDs). If the RPD fails for an LCS/LCSD and yet the recoveries are within acceptance criteria, the batch is still acceptable.

METHOD BLANK

The Method Blank is a QC sample consisting of all the reagents used in analyzing the environmental samples contained in the QC batch. Method Blank results are used to determine if interference or contamination in the analytical system could lead to the reporting of false positive data or elevated analyte concentrations. All target analytes must be below the reporting limits (RL) or the associated sample(s) must be ND except under the following circumstances:

- Common organic contaminants may be present at concentrations up to 5 times the reporting limits. Common metals contaminants may be present at concentrations up to 2 times the reporting limit, or the reported blank concentration must be twenty fold less than the concentration reported in the associated environmental samples. (See common laboratory contaminants listed below.)

Volatile (GC or GC/MS)

Methylene chloride
Acetone
2-Butanone

Semivolatile (GC/MS)

Phthalate Esters

Metals

Copper
Iron
Zinc
Lead*

- *for analyses run on TJA Trace ICP, ICPMS or GFAA only*

QUALITY CONTROL ELEMENTS OF SW-846 METHODS (Continued)

- Organic blanks will be accepted if compounds detected in the blank are present in the associated samples at levels 10 times the blank level. Inorganic blanks will be accepted if elements detected in the blank are present in the associated samples at 20 times the blank level.
- Blanks will be accepted if the compounds/elements detected are not present in any of the associated environmental samples.

Failure to meet these Method Blank criteria requires the reparation and reanalysis of all samples in the QC batch.

MATRIX SPIKE/MATRIX SPIKE DUPLICATE

A Matrix Spike and a Matrix Spike Duplicate are a pair of environmental samples to which known concentrations of a full or partial set of target analytes are added. The MS/MSD results are determined in the same manner as the results of the environmental sample used to prepare the MS/MSD. The analyte recoveries and the relative percent differences (RPDs) of the recoveries are calculated and used to evaluate the effect of the sample matrix on the analytical results. Due to the potential variability of the matrix of each sample, the MS/MSD results may not have an immediate bearing on any samples except the one spiked; therefore, the associated batch MS/MSD may not reflect the same compounds as the samples contained in the analytical report. When these MS/MSD results fail to meet acceptance criteria, the data is evaluated. If the LCS is within acceptance criteria, the batch is considered acceptable. The acceptance criteria do not apply to samples that are diluted for organics if the native sample amount is 4x the concentration of the spike.

For certain methods, a Matrix Spike/Sample Duplicate (MS/DU) may be included in the QC batch in place of the MS/MSD. For the parameters (i.e. pH, ignitability) where it is not possible to prepare a spiked sample, a Sample Duplicate may be included in the QC batch. However, a Sample Duplicate is less likely to provide usable precision statistics depending on the likelihood of finding concentrations below the standard reporting limit. When the Sample Duplicate result fails to meet acceptance criteria, the data is evaluated.

SURROGATE COMPOUNDS

In addition to these batch-related QC indicators, each organic environmental and QC sample is spiked with surrogate compounds. Surrogates are organic chemicals that behave similarly to the analytes of interest and that are rarely present in the environment. Surrogate recoveries are used to monitor the individual performance of a sample in the analytical system.

If surrogate recoveries are biased high in the LCS, LCSD, or the Method Blank, and the associated sample(s) are ND, the batch is acceptable. Otherwise, if the LCS, LCSD, or Method Blank surrogate(s) fail to meet recovery criteria, the entire sample batch is repped and reanalyzed. If the surrogate recoveries are outside criteria for environmental samples, the samples will be repped and reanalyzed unless there is objective evidence of matrix interference or if the sample dilution is greater than the threshold outlined in the associated method SOP.

For the GC/MS BNA methods, the surrogate criterion is that two of the three surrogates for each fraction must meet acceptance criteria. The third surrogate must have a recovery of ten percent or greater.

For the Pesticide, PCB, and PAH methods, the surrogate criterion is that one of two surrogate compounds must meet acceptance criteria.

STL North Canton Certifications and Approvals:

California (#01144CA), Connecticut (#PH-0590), Florida (#E87225), Illinois (#100439), Kansas (#E10336), Louisiana (#04112), Maryland (#272), Minnesota (#39-999-348), New Jersey (#OH001), New York (#10975), Ohio (#6090), OhioVAP (#CL0024), Rhode Island (#237), South Carolina (#92007001, #92007002, #92007003), Tennessee (#02903), Utah (#QUAN9), West Virginia (#210), Wisconsin (#999518190), NAVY, ARMY, USDA Soil Permit, ACIL Seal of Excellence – Participating Lab Status Award (#82)



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STL

***EXECUTIVE
SUMMARY***

EXECUTIVE SUMMARY - Detection Highlights

A4H130229

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
GW-17360-081204-DCR-233 08/12/04 09:01 001				
cis-1,2-Dichloroethene	64	2.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	6.6	2.0	ug/L	SW846 8260B
Methylene chloride	3.0 J,B	10	ug/L	SW846 8260B
Methyl tert-butyl ether	3.2 J	10	ug/L	SW846 8260B
Tetrachloroethene	28	2.0	ug/L	SW846 8260B
Trichloroethene	45	2.0	ug/L	SW846 8260B
GW-17360-081204-DCR-234 08/12/04 09:06 002				
cis-1,2-Dichloroethene	62	2.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	6.3	2.0	ug/L	SW846 8260B
Methylene chloride	3.1 J,B	10	ug/L	SW846 8260B
Methyl tert-butyl ether	3.3 J	10	ug/L	SW846 8260B
Tetrachloroethene	27	2.0	ug/L	SW846 8260B
Trichloroethene	44	2.0	ug/L	SW846 8260B
GW-17360-081204-DCR-235 08/12/04 09:16 003				
Chloroform	0.95 J	1.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	5.5	1.0	ug/L	SW846 8260B
Trichloroethene	11	1.0	ug/L	SW846 8260B
GW-17360-081204-DCR-236 08/12/04 10:56 004				
Chloroform	0.58 J	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	0.26 J	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	0.44 J	1.0	ug/L	SW846 8260B
Tetrachloroethene	0.92 J	1.0	ug/L	SW846 8260B
Trichloroethene	1.6	1.0	ug/L	SW846 8260B
Vinyl chloride	0.40 J	1.0	ug/L	SW846 8260B
GW-17360-081204-DCR-237 08/12/04 005				
Acetone	2.1 J,B	25	ug/L	SW846 8260B
Methylene chloride	3.1 J,B	5.0	ug/L	SW846 8260B

METHOD SUMMARY

ANALYTICAL METHODS SUMMARY

A4H130229

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
Volatile Organics by GC/MS	SW846 8260B

References:

SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

SAMPLE SUMMARY

A4H130229

<u>WO #</u>	<u>SAMPLE#</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMP TIME</u>
GM350	001	GW-17360-081204-DCR-233	08/12/04	09:01
GM353	002	GW-17360-081204-DCR-234	08/12/04	09:06
GM354	003	GW-17360-081204-DCR-235	08/12/04	09:16
GM355	004	GW-17360-081204-DCR-236	08/12/04	10:56
GM357	005	GW-17360-081204-DCR-237	08/12/04	

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.



STL

***SHIPPING
AND
RECEIVING DOCUMENTS***

CRA

CONESTOGA-ROVERS & ASSOCIATES, INC.
 14496 Sheldon Road, Suite 200
 Plymouth, MI 48170 • (734) 453-5123

SHIPPED TO (Laboratory Name):

STL - North Canton

CHAIN OF CUSTODY RECORD

REFERENCE NUMBER:
17360-09

PROJECT NAME: GM - Grand Rapids

SAMPLER'S SIGNATURE: *[Signature]* PRINTED NAME: David C. Rivers

SEQ. No.	DATE	TIME	SAMPLE TYPE	# OF CONTAINERS	PARAMETERS	REMARKS
1	8/12/04	9:01	GM-17360-081204-DCR-233	3	STL Y&S STP TBT	
2	"	9:06		3	Y	
3	"	9:16		3	Y	
4	"	10:56		3	Y	
5	"	-		1	X	

TOTAL NUMBER OF CONTAINERS: 13

CRA Contact
Paul Wiseman

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
1. <i>[Signature]</i>	8-12-04	15:30	1. <i>[Signature]</i>		
2. _____	DATE:	TIME:	2. _____	DATE:	TIME:
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	DATE:	TIME:
3. _____	DATE:	TIME:	1. _____	DATE:	TIME:

METHOD OF SHIPMENT: **FED EX** AIR BILL No. 67410694 1240

White Yellow	Fully Executed Copy Researching Laboratory Copy	Pink Goldened	Shipped Copy Sampler Copy	SAMPLE TEAM: <i>David Rivers</i>	RECEIVED FOR LABORATORY BY: <i>Angela Patterson</i>
27166				DATE: 8-13-04	TIME: 0940

RSR280

Client:

57787

Lot #:

A4H130229

Case Number/SDG:

17360-09

Storage Location: MS

Severn Trent Laboratories, Inc.
Sample Control Record

Laboratory Sample I.D.	Transferred By	Date	Entered	Removed	Reason	Date Returned
GM350	STILLERJ	8/13/04	Yes		Storage	
GM353	STILLERJ	8/13/04	Yes		Storage	
GM354	STILLERJ	8/13/04	Yes		Storage	
GM355	STILLERJ	8/13/04	Yes		Storage	
GM357	STILLERJ	8/13/04	Yes		Storage	

STL Cooler Receipt Form/Narrative
North Canton Facility

Lot Number: AUH130204

Client: CRA
 Cooler Received on: 8-13-04

Project: GM-Grand Rapids
 Opened on: 8-13-04

Quote#: _____
 by: Angel Mattheis
 (Signature)

Fedx Client Drop Off UPS DHL FAS Other: _____
 STL Cooler No# _____ Foam Box Client Cooler Other _____

1. Were custody seals on the outside of the cooler? Yes No Intact? Yes No NA
 If YES, Quantity _____
 Were the custody seals signed and dated? Yes No NA
 2. Shipper's packing slip attached to this form? Yes No NA
 3. Did custody papers accompany the samples? Yes No
 4. Did you sign the custody papers in the appropriate place? Yes No
 5. Packing material used: Bubble Wrap Foam None Other: _____
 6. Cooler temperature upon receipt 5.0 °C (see back of form for multiple coolers/temp)
 METHOD: Temp Vial Coolant & Sample Against Bottles IR ICE/H₂O Slurry
 COOLANT: Wet Ice Blue Ice Dry Ice Water None
 7. Did all bottles arrive in good condition (Unbroken)? Yes No
 8. Could all bottle labels and/or tags be reconciled with the COC? Yes No
 9. Were samples at the correct pH? (record below/on back) Yes No NA
 10. Were correct bottles used for the tests indicated? Yes No
 11. Were air bubbles >6 mm in any VOA vials? Yes No NA
 12. Sufficient quantity received to perform indicated analyses? Yes No
- Contacted PM _____ Date: _____ by: _____ via Voice Mail Verbal Other
- Concerning: _____

1. CHAIN OF CUSTODY

The following discrepancies occurred:

2. SAMPLE CONDITION

Sample(s) _____ were received after the recommended holding time had expired.
 Sample(s) _____ were received in a broken container.

3. SAMPLE PRESERVATION

Sample(s) _____ were further preserved in sample receiving to meet recommended pH level(s). Nitric Acid Lot #052804-HNO₃; Sulfuric Acid Lot # 011-504-H₂SO₄; Sodium Hydroxide Lot # -031804-NaOH; Hydrochloric Acid Lot # 100902-HCl; Sodium Hydroxide and Zinc Acetate Lot # 112801-CH₃COO₂ZN/NaOH
 Sample(s) _____ were received with bubble > 6 mm in diameter (cc: PM)

4. Other (see below or back)

Client ID	pH	Date	Initials

GCMS VOLATILE DATA

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-233

GC/MS Volatiles

Lot-Sample #....: A4H130229-001 Work Order #....: GM3501AA Matrix.....: WG
 Date Sampled...: 08/12/04 09:01 Date Received...: 08/13/04
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #....: 4238160
 Dilution Factor: 2 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	50	ug/L	1.5
Benzene	ND	2.0	ug/L	0.44
Bromodichloromethane	ND	2.0	ug/L	0.28
Bromoform	ND	2.0	ug/L	0.34
Bromomethane	ND	2.0	ug/L	0.72
2-Butanone	ND	50	ug/L	0.78
Carbon disulfide	ND	10	ug/L	0.56
Carbon tetrachloride	ND	2.0	ug/L	0.38
Chlorobenzene	ND	2.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.48
Chloroform	ND	2.0	ug/L	0.32
Chloromethane	ND	2.0	ug/L	0.28
Cyclohexane	ND	2.0	ug/L	0.24
Dibromochloromethane	ND	2.0	ug/L	0.38
1,2-Dibromo-3-chloro- propane	ND	2.0	ug/L	0.56
1,2-Dibromoethane	ND	2.0	ug/L	0.48
1,2-Dichlorobenzene	ND	2.0	ug/L	0.40
1,3-Dichlorobenzene	ND	2.0	ug/L	0.36
1,4-Dichlorobenzene	ND	2.0	ug/L	0.44
Dichlorodifluoromethane	ND	2.0	ug/L	0.50
1,1-Dichloroethane	ND	2.0	ug/L	0.42
1,2-Dichloroethane	ND	2.0	ug/L	0.32
1,1-Dichloroethene	ND	2.0	ug/L	0.36
cis-1,2-Dichloroethene	64	2.0	ug/L	0.42
trans-1,2-Dichloroethene	6.6	2.0	ug/L	0.32
1,2-Dichloropropane	ND	2.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	2.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	2.0	ug/L	0.34
Ethylbenzene	ND	2.0	ug/L	0.38
2-Hexanone	ND	100	ug/L	0.70
Isopropylbenzene	ND	10	ug/L	0.30
Methyl acetate	ND	20	ug/L	1.0
Methylene chloride	3.0 J,B	10	ug/L	0.38
Methylcyclohexane	ND	2.0	ug/L	1.0
4-Methyl-2-pentanone	ND	100	ug/L	0.64
Methyl tert-butyl ether	3.2 J	10	ug/L	0.36
Styrene	ND	2.0	ug/L	0.26

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-233

GC/MS Volatiles

Lot-Sample #....: A4H130229-001 Work Order #....: GM3501AA Matrix.....: WG

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.44
Tetrachloroethene	28	2.0	ug/L	0.38
Toluene	ND	2.0	ug/L	0.34
1,2,4-Trichloro- benzene	ND	10	ug/L	0.38
1,1,1-Trichloroethane	ND	2.0	ug/L	0.42
1,1,2-Trichloroethane	ND	2.0	ug/L	0.44
Trichloroethene	45	2.0	ug/L	0.56
Trichlorofluoromethane	ND	2.0	ug/L	0.32
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	2.0	ug/L	0.52
Vinyl chloride	ND	2.0	ug/L	0.42
Xylenes (total)	ND	6.0	ug/L	0.88

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	93	(61 - 128)
Toluene-d8	94	(76 - 110)
4-Bromofluorobenzene	81	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-234

GC/MS Volatiles

Lot-Sample #....: A4H130229-002 Work Order #....: GM3531AA Matrix.....: WG
 Date Sampled...: 08/12/04 09:06 Date Received...: 08/13/04
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #....: 4238160
 Dilution Factor: 2 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	ND	50	ug/L	1.5
Benzene	ND	2.0	ug/L	0.44
Bromodichloromethane	ND	2.0	ug/L	0.28
Bromoform	ND	2.0	ug/L	0.34
Bromomethane	ND	2.0	ug/L	0.72
2-Butanone	ND	50	ug/L	0.78
Carbon disulfide	ND	10	ug/L	0.56
Carbon tetrachloride	ND	2.0	ug/L	0.38
Chlorobenzene	ND	2.0	ug/L	0.40
Chloroethane	ND	2.0	ug/L	0.48
Chloroform	ND	2.0	ug/L	0.32
Chloromethane	ND	2.0	ug/L	0.28
Cyclohexane	ND	2.0	ug/L	0.24
Dibromochloromethane	ND	2.0	ug/L	0.38
1,2-Dibromo-3-chloro- propane	ND	2.0	ug/L	0.56
1,2-Dibromoethane	ND	2.0	ug/L	0.48
1,2-Dichlorobenzene	ND	2.0	ug/L	0.40
1,3-Dichlorobenzene	ND	2.0	ug/L	0.36
1,4-Dichlorobenzene	ND	2.0	ug/L	0.44
Dichlorodifluoromethane	ND	2.0	ug/L	0.50
1,1-Dichloroethane	ND	2.0	ug/L	0.42
1,2-Dichloroethane	ND	2.0	ug/L	0.32
1,1-Dichloroethene	ND	2.0	ug/L	0.36
cis-1,2-Dichloroethene	62	2.0	ug/L	0.42
trans-1,2-Dichloroethene	6.3	2.0	ug/L	0.32
1,2-Dichloropropane	ND	2.0	ug/L	0.30
cis-1,3-Dichloropropene	ND	2.0	ug/L	0.24
trans-1,3-Dichloropropene	ND	2.0	ug/L	0.34
Ethylbenzene	ND	2.0	ug/L	0.38
2-Hexanone	ND	100	ug/L	0.70
Isopropylbenzene	ND	10	ug/L	0.30
Methyl acetate	ND	20	ug/L	1.0
Methylene chloride	3.1 J,B	10	ug/L	0.38
Methylcyclohexane	ND	2.0	ug/L	1.0
4-Methyl-2-pentanone	ND	100	ug/L	0.64
Methyl tert-butyl ether	3.3 J	10	ug/L	0.36
Styrene	ND	2.0	ug/L	0.26

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-234

GC/MS Volatiles

Lot-Sample #....: A4H130229-002 Work Order #....: GM3531AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	2.0	ug/L	0.44
Tetrachloroethene	27	2.0	ug/L	0.38
Toluene	ND	2.0	ug/L	0.34
1,2,4-Trichloro- benzene	ND	10	ug/L	0.38
1,1,1-Trichloroethane	ND	2.0	ug/L	0.42
1,1,2-Trichloroethane	ND	2.0	ug/L	0.44
Trichloroethene	44	2.0	ug/L	0.56
Trichlorofluoromethane	ND	2.0	ug/L	0.32
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	2.0	ug/L	0.52
Vinyl chloride	ND	2.0	ug/L	0.42
Xylenes (total)	ND	6.0	ug/L	0.88

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	98	(73 - 122)
1,2-Dichloroethane-d4	91	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	80	(74 - 116)

NOTE(S):

- J Estimated result. Result is less than RL.
- B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-235

GC/MS Volatiles

Lot-Sample #...: A4H130229-003 Work Order #...: GM3541AA Matrix.....: WG
 Date Sampled...: 08/12/04 09:16 Date Received...: 08/13/04
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #...: 4238160
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	0.95 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-235

GC/MS Volatiles

Lot-Sample #....: A4H130229-003 Work Order #....: GM3541AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	5.5	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	11	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	99	(73 - 122)
1,2-Dichloroethane-d4	98	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	78	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GN-17360-081204-DCR-236

GC/MS Volatiles

Lot-Sample #....: A4H130229-004 Work Order #....: GM3551AA Matrix.....: WG
 Date Sampled...: 08/12/04 10:56 Date Received...: 08/13/04
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #....: 4238160
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING LIMIT	UNITS	MDL
Acetone	ND	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	0.58 J	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	0.26 J	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	0.44 J	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	ND	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

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CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-236

GC/MS Volatiles

Lot-Sample #...: A4H130229-004 Work Order #...: GM3551AA Matrix.....: WG

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	0.92 J	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	1.6	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	0.40 J	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	97	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
Toluene-d8	89	(76 - 110)
4-Bromofluorobenzene	79	(74 - 116)

NOTE(S):

J Estimated result. Result is less than RL.

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-237

GC/MS Volatiles

Lot-Sample #....: A4H130229-005 Work Order #....: GM3571AA Matrix.....: WQ
 Date Sampled....: 08/12/04 Date Received...: 08/13/04
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #....: 4238160
 Dilution Factor: 1 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL
 Method.....: SW846 8260B

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	MDL
Acetone	2.1 J,B	25	ug/L	0.74
Benzene	ND	1.0	ug/L	0.22
Bromodichloromethane	ND	1.0	ug/L	0.14
Bromoform	ND	1.0	ug/L	0.17
Bromomethane	ND	1.0	ug/L	0.36
2-Butanone	ND	25	ug/L	0.39
Carbon disulfide	ND	5.0	ug/L	0.28
Carbon tetrachloride	ND	1.0	ug/L	0.19
Chlorobenzene	ND	1.0	ug/L	0.20
Chloroethane	ND	1.0	ug/L	0.24
Chloroform	ND	1.0	ug/L	0.16
Chloromethane	ND	1.0	ug/L	0.14
Cyclohexane	ND	1.0	ug/L	0.12
Dibromochloromethane	ND	1.0	ug/L	0.19
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	0.28
1,2-Dibromoethane	ND	1.0	ug/L	0.24
1,2-Dichlorobenzene	ND	1.0	ug/L	0.20
1,3-Dichlorobenzene	ND	1.0	ug/L	0.18
1,4-Dichlorobenzene	ND	1.0	ug/L	0.22
Dichlorodifluoromethane	ND	1.0	ug/L	0.25
1,1-Dichloroethane	ND	1.0	ug/L	0.21
1,2-Dichloroethane	ND	1.0	ug/L	0.16
1,1-Dichloroethene	ND	1.0	ug/L	0.18
cis-1,2-Dichloroethene	ND	1.0	ug/L	0.21
trans-1,2-Dichloroethene	ND	1.0	ug/L	0.16
1,2-Dichloropropane	ND	1.0	ug/L	0.15
cis-1,3-Dichloropropene	ND	1.0	ug/L	0.12
trans-1,3-Dichloropropene	ND	1.0	ug/L	0.17
Ethylbenzene	ND	1.0	ug/L	0.19
2-Hexanone	ND	50	ug/L	0.35
Isopropylbenzene	ND	5.0	ug/L	0.15
Methyl acetate	ND	10	ug/L	0.52
Methylene chloride	3.1 J,B	5.0	ug/L	0.19
Methylcyclohexane	ND	1.0	ug/L	0.50
4-Methyl-2-pentanone	ND	50	ug/L	0.32
Methyl tert-butyl ether	ND	5.0	ug/L	0.18
Styrene	ND	1.0	ug/L	0.13

(Continued on next page)

CONESTOGA-ROVERS & ASSOC., INC.

Client Sample ID: GW-17360-081204-DCR-237

GC/MS Volatiles

Lot-Sample #...: A4H130229-005 Work Order #...: GM3571AA Matrix.....: WQ

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>MDL</u>
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	0.22
Tetrachloroethene	ND	1.0	ug/L	0.19
Toluene	ND	1.0	ug/L	0.17
1,2,4-Trichloro- benzene	ND	5.0	ug/L	0.19
1,1,1-Trichloroethane	ND	1.0	ug/L	0.21
1,1,2-Trichloroethane	ND	1.0	ug/L	0.22
Trichloroethene	ND	1.0	ug/L	0.28
Trichlorofluoromethane	ND	1.0	ug/L	0.16
1,1,2-Trichloro- 1,2,2-trifluoroethane	ND	1.0	ug/L	0.26
Vinyl chloride	ND	1.0	ug/L	0.21
Xylenes (total)	ND	3.0	ug/L	0.44

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	104	(73 - 122)
1,2-Dichloroethane-d4	99	(61 - 128)
Toluene-d8	92	(76 - 110)
4-Bromofluorobenzene	84	(74 - 116)

NOTE(S) :

J Estimated result. Result is less than RL.

B Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H130229
 MB Lot-Sample #: A4H250000-160

Work Order #...: GNVN91AA

Matrix.....: WATER

Analysis Date...: 08/24/04
 Dilution Factor: 1

Prep Date.....: 08/24/04

Final Wgt/Vol...: 5 mL

Prep Batch #...: 4238160

Initial Wgt/Vol: 5 mL

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
Acetone	0.76 J	25	ug/L	SW846 8260B
Benzene	ND	1.0	ug/L	SW846 8260B
Bromodichloromethane	ND	1.0	ug/L	SW846 8260B
Bromoform	ND	1.0	ug/L	SW846 8260B
Bromomethane	ND	1.0	ug/L	SW846 8260B
2-Butanone	ND	25	ug/L	SW846 8260B
Carbon disulfide	ND	5.0	ug/L	SW846 8260B
Carbon tetrachloride	ND	1.0	ug/L	SW846 8260B
Chlorobenzene	ND	1.0	ug/L	SW846 8260B
Chloroethane	ND	1.0	ug/L	SW846 8260B
Chloroform	ND	1.0	ug/L	SW846 8260B
Chloromethane	ND	1.0	ug/L	SW846 8260B
Cyclohexane	ND	1.0	ug/L	SW846 8260B
Dibromochloromethane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromo-3-chloro- propane	ND	1.0	ug/L	SW846 8260B
1,2-Dibromoethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,3-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
1,4-Dichlorobenzene	ND	1.0	ug/L	SW846 8260B
Dichlorodifluoromethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,2-Dichloroethane	ND	1.0	ug/L	SW846 8260B
1,1-Dichloroethene	ND	1.0	ug/L	SW846 8260B
cis-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
trans-1,2-Dichloroethene	ND	1.0	ug/L	SW846 8260B
1,2-Dichloropropane	ND	1.0	ug/L	SW846 8260B
cis-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
trans-1,3-Dichloropropene	ND	1.0	ug/L	SW846 8260B
Ethylbenzene	ND	1.0	ug/L	SW846 8260B
2-Hexanone	1.3 J	50	ug/L	SW846 8260B
Isopropylbenzene	ND	5.0	ug/L	SW846 8260B
Methyl acetate	ND	10	ug/L	SW846 8260B
Methylene chloride	3.1 J	5.0	ug/L	SW846 8260B
Methylcyclohexane	0.87 J	1.0	ug/L	SW846 8260B
4-Methyl-2-pentanone	ND	50	ug/L	SW846 8260B
Methyl tert-butyl ether	ND	5.0	ug/L	SW846 8260B
Styrene	ND	1.0	ug/L	SW846 8260B
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	SW846 8260B
Tetrachloroethene	ND	1.0	ug/L	SW846 8260B
Toluene	ND	1.0	ug/L	SW846 8260B

(Continued on next page)

METHOD BLANK REPORT

GC/MS Volatiles

Client Lot #...: A4H130229

Work Order #...: GNV91AA

Matrix.....: WATER

PARAMETER	RESULT	REPORTING		
		LIMIT	UNITS	METHOD
1,2,4-Trichloro-benzene	0.36 J	5.0	ug/L	SW846 8260B
1,1,1-Trichloroethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloroethane	ND	1.0	ug/L	SW846 8260B
Trichloroethene	ND	1.0	ug/L	SW846 8260B
Trichlorofluoromethane	ND	1.0	ug/L	SW846 8260B
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	1.0	ug/L	SW846 8260B
Vinyl chloride	ND	1.0	ug/L	SW846 8260B
Xylenes (total)	ND	3.0	ug/L	SW846 8260B
		PERCENT	RECOVERY	
<u>SURROGATE</u>		<u>RECOVERY</u>	<u>LIMITS</u>	
Dibromofluoromethane	98		(73 - 122)	
1,2-Dichloroethane-d4	90		(61 - 128)	
Toluene-d8	90		(76 - 110)	
4-Bromofluorobenzene	82		(74 - 116)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

J Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H130229 Work Order #...: GNV91AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H250000-160 GNV91AD-LCSD
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #...: 4238160
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>SPIKE</u>	<u>MEASURED</u>	<u>PERCENT</u>	<u>RECOVERY</u>	<u>RPD</u>	<u>METHOD</u>
	<u>AMOUNT</u>	<u>AMOUNT</u>	<u>UNITS</u>			
Benzene	10	9.8	ug/L	98		SW846 8260B
	10	10	ug/L	101	2.9	SW846 8260B
Chlorobenzene	10	9.5	ug/L	95		SW846 8260B
	10	9.9	ug/L	99	4.3	SW846 8260B
1,1-Dichloroethene	10	10	ug/L	103		SW846 8260B
	10	11	ug/L	106	3.0	SW846 8260B
Toluene	10	10	ug/L	100		SW846 8260B
	10	10	ug/L	103	3.6	SW846 8260B
Trichloroethene	10	10	ug/L	101		SW846 8260B
	10	10	ug/L	101	0.070	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>
	<u>RECOVERY</u>	<u>LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
	96	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
	98	(61 - 128)
Toluene-d8	96	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)
	93	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4H130229 Work Order #....: GNVN91AC-LCS Matrix.....: WATER
 LCS Lot-Sample#: A4H250000-160 GNVN91AD-LCSD
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #....: 4238160
 Dilution Factor: 1 Final Wgt/Vol...: 5 mL
 Initial Wgt/Vol: 5 mL

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>RPD</u>	<u>RPD LIMITS</u>	<u>METHOD</u>
Benzene	98	(80 - 116)			SW846 8260B
	101	(80 - 116)	2.9	(0-20)	SW846 8260B
Chlorobenzene	95	(76 - 117)			SW846 8260B
	99	(76 - 117)	4.3	(0-20)	SW846 8260B
1,1-Dichloroethene	103	(63 - 130)			SW846 8260B
	106	(63 - 130)	3.0	(0-20)	SW846 8260B
Toluene	100	(74 - 119)			SW846 8260B
	103	(74 - 119)	3.6	(0-20)	SW846 8260B
Trichloroethene	101	(75 - 122)			SW846 8260B
	101	(75 - 122)	0.070	(0-20)	SW846 8260B

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Dibromofluoromethane	96	(73 - 122)
	96	(73 - 122)
1,2-Dichloroethane-d4	97	(61 - 128)
	98	(61 - 128)
Toluene-d8	96	(76 - 110)
	96	(76 - 110)
4-Bromofluorobenzene	91	(74 - 116)
	93	(74 - 116)

NOTE (S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

MATRIX SPIKE SAMPLE DATA REPORT

GC/MS Volatiles

Client Lot #...: A4H130229 Work Order #...: GM4LF1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4H130265-010 GM4LF1AD-MSD
 Date Sampled...: 08/11/04 Date Received...: 08/13/04
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #...: 4238160
 Dilution Factor: 250 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	SAMPLE	SPIKE	MEASRD	UNITS	PERCNT		METHOD
	AMOUNT	AMT	AMOUNT		RECVRY	RPD	
Benzene	120	2500	2500	ug/L	93		SW846 8260B
	120	2500	2700	ug/L	101	7.8	SW846 8260B
Chlorobenzene	ND	2500	2200	ug/L	89		SW846 8260B
	ND	2500	2400	ug/L	97	8.5	SW846 8260B
1,1-Dichloroethene	ND	2500	2400	ug/L	97		SW846 8260B
	ND	2500	2600	ug/L	105	7.9	SW846 8260B
Toluene	510	2500	3000	ug/L	100		SW846 8260B
	510	2500	3200	ug/L	109	7.0	SW846 8260B
Trichloroethene	ND	2500	2300	ug/L	92		SW846 8260B
	ND	2500	2500	ug/L	99	7.5	SW846 8260B

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Dibromofluoromethane	93	(73 - 122)
	97	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
	99	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	94	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC/MS Volatiles

Client Lot #....: A4H130229 Work Order #....: GM4LF1AC-MS Matrix.....: WATER
 MS Lot-Sample #: A4H130265-010 GM4LF1AD-MSD
 Date Sampled...: 08/11/04 Date Received...: 08/13/04
 Prep Date.....: 08/24/04 Analysis Date...: 08/24/04
 Prep Batch #....: 4238160
 Dilution Factor: 250 Initial Wgt/Vol: 5 mL Final Wgt/Vol...: 5 mL

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	93	(78 - 118)			SW846 8260B
	101	(78 - 118)	7.8	(0-20)	SW846 8260B
Chlorobenzene	89	(76 - 117)			SW846 8260B
	97	(76 - 117)	8.5	(0-20)	SW846 8260B
1,1-Dichloroethene	97	(62 - 130)			SW846 8260B
	105	(62 - 130)	7.9	(0-20)	SW846 8260B
Toluene	100	(70 - 119)			SW846 8260B
	109	(70 - 119)	7.0	(0-20)	SW846 8260B
Trichloroethene	92	(62 - 130)			SW846 8260B
	99	(62 - 130)	7.5	(0-20)	SW846 8260B

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Dibromofluoromethane	93	(73 - 122)
	97	(73 - 122)
1,2-Dichloroethane-d4	94	(61 - 128)
	99	(61 - 128)
Toluene-d8	98	(76 - 110)
	98	(76 - 110)
4-Bromofluorobenzene	96	(74 - 116)
	94	(74 - 116)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Bold print denotes control parameters

END OF REPORT

APPENDIX D
DATA QUALITY VALIDATION MEMORANDUMS



MEMORANDUM

TO: Gary Klepper REF. NO.: 17360-09

FROM: Kathy Shaw /tl/43/Det *[Signature]* DATE: October 20, 2004

RE: Data Quality Assessment and Validation
Quarterly Groundwater Monitoring
GM Grand Rapids Site – Grand Rapids, Michigan

The following details a quality assessment and validation of the analytical data resulting from the August 9 through 12, 2004, collection of 39 groundwater and eight (8) quality control samples from the GM Grand Rapids Site in Grand Rapids, Michigan. The sample summary detailing sample identification, sample location, quality control samples, and analytical parameters is presented in Table 1. Sample analysis was completed at Severn Trent Laboratories, Inc. in North Canton, Ohio (STL) in accordance with the methodologies presented in Table 2. The quality control criteria used to assess the data were established by the methods and the quality assurance project plan (QAPP).¹

Sample Quantitation

The laboratory reported detected concentrations of volatile organic compounds (VOC), and semi-volatile organic compounds (SVOC), below the laboratory's reporting limit (RL) but above the laboratory's method detection limit (MDL). The laboratory flagged these sample concentrations with a "J". These concentrations should be qualified as estimated (J) values unless otherwise qualified in this memorandum.

Holding Time Period and Sample Analysis

The holding time periods are presented in Table 3. The samples, as indicated by the sample collection, extraction and analysis dates on the chain-of-custody forms and analytical reports provided by STL, were prepared and analyzed within the required holding time periods.

Method Blank Samples

Contamination of samples contributed by laboratory conditions or procedures was monitored by concurrent preparation and analysis of method blank samples. The samples presented in Table 4 should be qualified due to laboratory contamination. The remaining method blank samples were reported to be free from detectable levels of target analytes, indicating no additional laboratory-attributable contamination occurred.

¹ Application of quality assurance criteria was consistent with "USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review", EPA-540/R-99/008, October 1999.

Laboratory Control Sample / Laboratory Control Sample Duplicate Analysis

The laboratory control sample and laboratory control sample duplicate (LCS/LCSD) analyses serve as a monitor of the overall performance in all steps of the sample analysis. The LCS percent recoveries were within the laboratory control limits, indicating that an acceptable level of overall performance was achieved.

Laboratory precision was verified by the relative percent difference (RPD) of the LCS/LCSD when a matrix spike/matrix spike duplicate was not analyzed. The RPDs were within the laboratory control limits, indicating that an acceptable level of overall laboratory precision was achieved.

Surrogate Compound Percent Recoveries (Surrogate Recoveries)

Individual sample performance for the organic analyses was monitored by assessing the results of surrogate compound percent recoveries. The surrogate recovery acceptance criteria was met for all samples.

Matrix Spike/Matrix Spike Duplicate Percent Recoveries

To assess the long term accuracy and precision of the analytical methods on various matrices, matrix spike/matrix spike duplicate (MS/MSD) percent recoveries and the relative percent difference (RPD) of the concentrations were determined. The samples selected for MS/MSD analysis are identified in Table 1. The MS/MSD percent recoveries and associate RPDs acceptance criteria were met for all analyses.

Field Quality Assurance/Quality Control

The field quality assurance/quality control consisted of four (4) field duplicate sample sets and four (4) trip blank samples.

Overall precision for the sampling event and laboratory procedures was monitored using the results of the field duplicate sample sets. Table 5 summarizes the results of the detected analytes in the field duplicate sample sets. The data indicate that an adequate level of precision was achieved for the sampling event.

To monitor potential cross-contamination of VOC during aqueous sample transportation and storage, a trip blank was submitted to the laboratory for VOC analysis with each shipping cooler containing multiple samples. The samples that should be qualified due to trip blank contamination are summarized in Table 6. No additional target analytes were reported as detected in the trip blank samples.

Overall Assessment

The data were found to exhibit acceptable levels of accuracy and precision, based on the provided information, and may be used with the qualifications noted.

TABLE 1

**SAMPLE SUMMARY
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Sample ID</i>	<i>Sample Location</i>	<i>Matrix</i>	<i>QC Sample</i>	<i>Parameters</i>
STL Lot No.: A4H100202				
CRA SDG: G-24				
GW-17360-080904-DCR-191	87-5	Water	MS/MSD	TCL VOC
GW-17360-080904-DCR-192	87-1	Water		TCL VOC
GW-17360-080904-DCR-193	87-4	Water		TCL VOC
GW-17360-080904-DCR-194	87-4	Water	Duplicate (193)	TCL VOC
GW-17360-080904-DCR-195	MW 14-04	Water		TCL VOC
GW-17360-080904-DCR-196	86-2	Water		TCL VOC
GW-17360-080904-DCR-197	87-2	Water		TCL VOC, TCL SVOC
GW-17360-080904-DCR-198	86-1	Water		TCL VOC
GW-17360-080904-DCR-199	85-5B	Water		TCL VOC, TCL SVOC
GW-17360-080904-DCR-200	85-3	Water		TCL VOC, TCL SVOC
GW-17360-080904-DCR-201	--	Water	Trip Blank	TCL VOC
STL Lot No.: A4H110160				
CRA SDG: G-25				
GW-17360-081004-DCR-202	85-6	Water		TCL VOC, TCL SVOC
GW-17360-081004-DCR-203	85-6	Water	Duplicate (202)	TCL VOC, TCL SVOC
GW-17360-081004-DCR-204	MW 2-03	Water		TCL VOC
GW-17360-081004-DCR-205	MW 3-03	Water		TCL VOC
GW-17360-081004-DCR-206	85-1	Water		TCL VOC
GW-17360-081004-DCR-207	MW 1-03	Water		TCL VOC
GW-17360-081004-DCR-208	85-7	Water		TCL VOC
GW-17360-081004-DCR-209	MW 13-04	Water		TCL VOC
GW-17360-081004-DCR-210	85-2	Water		TCL VOC
GW-17360-081004-DCR-211	MW 15-04	Water		TCL VOC
GW-17360-081004-DCR-212	MW 7-03	Water		TCL VOC
GW-17360-081004-DCR-213	87-9	Water		TCL VOC
GW-17360-081004-DCR-214	87-8	Water		TCL VOC
GW-17360-081004-DCR-215	87-8	Water	Duplicate (214)	TCL VOC
GW-17360-081004-DCR-216	86-3	Water		TCL VOC
GW-17360-081004-DCR-217	--	Water	Trip Blank	TCL VOC
STL Lot No.: A4H120238				
CRA SDG: G-26				
GW-17360-081104-DCR-218	88-2	Water		TCL VOC
GW-17360-081104-DCR-219	88-3	Water		TCL VOC
GW-17360-081104-DCR-220	88-4	Water		TCL VOC
GW-17360-081104-DCR-221	PWDISCH	Water		TCL VOC
GW-17360-081104-DCR-222	87-11	Water		TCL VOC
GW-17360-081104-DCR-223	87-13	Water		TCL VOC
GW-17360-081104-DCR-224	MW 6-03	Water		TCL VOC
GW-17360-081104-DCR-225	MW 8-04	Water		TCL VOC
GW-17360-081104-DCR-226	87-10	Water		TCL VOC
GW-17360-081104-DCR-227	MW 5-03	Water	MS/MSD	TCL VOC
GW-17360-081104-DCR-228	MW 9-04	Water		TCL VOC
GW-17360-081104-DCR-229	C-3	Water		TCL VOC

**SAMPLE SUMMARY
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN**

<i>Sample ID</i>	<i>Sample Location</i>	<i>Matrix</i>	<i>QC Sample</i>	<i>Parameters</i>
STL Lot No.: A4H120238				
CRA SDG; G-26 (Cont'd)				
GW-17360-081104-DCR-230	C-2	Water		TCL VOC
GW-17360-081104-DCR-231	C-1	Water		TCL VOC
GW-17360-081104-DCR-232	--	Water	Trip Blank	TCL VOC
STL Lot No.: A4H130229				
CRA SDG; G-27				
GW-17360-081204-DCR-233	11-04	Water		TCL VOC
GW-17360-081204-DCR-234	11-04	Water	Duplicate (233)	TCL VOC
GW-17360-081204-DCR-235	10-04	Water		TCL VOC
GW-17360-081204-DCR-236	MW 4-03	Water		TCL VOC
GW-17360-081204-DCR-237	--	Water	Trip Blank	TCL VOC

TCL - Target Compound List
VOC - Volatile Organic Compounds
SVOC - Semi - Volatile Organic Compounds
QC - Quality Control
MS/MSD - Matrix Spike/Matix Spike Duplicate

TABLE 2

SUMMARY OF ANALYTICAL METHODS
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Parameter</i>	<i>Method</i>
TCL VOC	SW-846 8260B ¹
TCL SVOC	SW-846 8270C

¹ SW-846 - "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods",
SW-846, 3rd Edition, and Promulgated updates, November 1986

TABLE 3

HOLDING TIME PERIODS
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Analysis</i>	<i>Matrix</i>	<i>Holding Time Period</i>
TCL VOC	Water	- 14 days from sample collection to completion of analysis
TCL SVOC	Water	- 7 days from sample collection to extraction - 40 days from extraction to completion of analysis

TABLE 4

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO
METHOD BLANK CONTAMINATION
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Analysis</i>	<i>Parameters</i>	<i>Associated Samples</i>	<i>Qualified Sample Result</i> ¹
TCL VOC (µg/L)	Acetone	GW-17360-081204-DCR-237	ND (25) U
TCL VOC (µg/L)	Benzene	GW-17360-081004-DCR-203	ND (1.0) U
		GW-17360-081004-DCR-207	ND (5.0) U
		GW-17360-081004-DCR-209	ND (1.0) U
		GW-17360-081004-DCR-210	ND (1.0) U
		GW-17360-081004-DCR-213	ND (1.0) U
		GW-17360-081004-DCR-214	ND (1.0) U
		GW-17360-081004-DCR-217	ND (1.0) U
		GW-17360-081104-DCR-220	ND (1.0) U
		GW-17360-081104-DCR-223	ND (1.0) U
		GW-17360-081104-DCR-228	ND (1.0) U
		GW-17360-081104-DCR-229	ND (1.0) U
GW-17360-081104-DCR-232	ND (1.0) U		
TCL VOC (µg/L)	Methylene chloride	GW-17360-080904-DCR-191	ND (10) U
		GW-17360-080904-DCR-201	ND (5.0) U
		GW-17360-081104-DCR-222	ND (10) U
		GW-17360-081104-DCR-232	ND (5.0) U
		GW-17360-081204-DCR-233	ND (10) U
		GW-17360-081204-DCR-234	ND (10) U
		GW-17360-081204-DCR-237	ND (5.0) U

¹The analyte should be qualified for the listed samples as:

ND () U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit in parenthesis.

TABLE 5

SUMMARY OF DETECTED ANALYTES IN FIELD DUPLICATE SAMPLE SETS
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Analysis</i>	<i>Parameters</i>	<i>Investigative Sample</i>	<i>Duplicate Sample</i>	<i>RPD</i> ¹
		GW-17360-080904-DCR-193	GW-17360-080904-DCR-194	
TCL VOC (µg/L)				
	Chloroform	1.5	1.6	6.5
	Trichloroethene	0.36 J ²	0.35 J	2.8
		GW-17360-081004-DCR-202	GW-17360-081004-DCR-203	
TCL VOC (µg/L)				
	Chloroform	0.28 J	0.31 J	10
	Tetrachloroethene	1.5	1.5	0
		GW-17360-081004-DCR-214	GW-17360-081004-DCR-215	
TCL VOC (µg/L)				
	Tetrachloroethene	0.31 J	0.23 J	30
	Trichloroethene	0.49 J	0.48 J	2.1
		GW-17360-081204-DCR-233	GW-17360-081204-DCR-234	
TCL VOC (µg/L)				
	cis-1,2-Dichloroethene	64	62	3.2
	Methyl Tert Butyl Ether	3.2 J	3.3 J	3.1
	Tetrachloroethene	28	27	3.6
	trans-1,2-Dichloroethene	6.6	6.3	4.7
	Trichloroethene	45	44	2.2

¹ RPD - Relative Percent Difference

² J - The associated numerical value is an estimated quantity.

TABLE 6

SUMMARY OF QUALIFIED SAMPLE DATA DUE TO
TRIP BLANK CONTAMINATION
GM GRAND RAPIDS SITE
GRAND RAPIDS, MICHIGAN

<i>Analysis</i>	<i>Parameters</i>	<i>Associated Samples</i>	<i>Qualified Sample Results</i> ¹
TCL VOC (µg/L)	Acetone	GW-17360-081004-DCR-202	ND (25) U
		GW-17360-081004-DCR-203	ND (25) U
		GW-17360-081004-DCR-206	ND (25) U
		GW-17360-081004-DCR-208	ND (25) U
		GW-17360-081004-DCR-209	ND (25) U
		GW-17360-081004-DCR-210	ND (25) U
		GW-17360-081004-DCR-211	ND (25) U
		GW-17360-081004-DCR-212	ND (25) U
		GW-17360-081004-DCR-213	ND (25) U
		GW-17360-081004-DCR-214	ND (25) U
		GW-17360-081004-DCR-215	ND (25) U
		GW-17360-081004-DCR-216	ND (25) U
		GW-17360-081104-DCR-218	ND (25) U
		GW-17360-081104-DCR-220	ND (25) U
		GW-17360-081104-DCR-222	ND (50) U
		GW-17360-081104-DCR-227	ND (25) U
		GW-17360-081104-DCR-228	ND (25) U
		GW-17360-081104-DCR-229	ND (25) U
		GW-17360-081104-DCR-230	ND (25) U
		GW-17360-081104-DCR-231	ND (25) U
TCL VOC (µg/L)	1,1-Dichloroethene	GW-17360-081104-DCR-222	ND (2.0) U
		GW-17360-081104-DCR-226	ND (1.0) U
		GW-17360-081104-DCR-228	ND (1.0) U

¹ The analyte should be qualified for the listed samples as:

ND () U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit in parenthesis.

