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# ENVIRONMENTAL ANALYTICAL SERVICES

## TEST REPORT

<p><b>RESULTS:</b> Karla Reesor                      403 807 2995          Peace River Area Monitoring Program Committee</p> <p><b>INVOICE:</b> Office Manager</p>	<p style="text-align: center;"><b>CLIENT SAMPLE ID</b>          Methane_Blank-Reno-20200224 14:30</p> <p><b>Matrix</b>          Ambient Air</p> <p><b>CANISTER ID:</b> 28944</p> <p><b>PRIORITY:</b> Normal</p> <p><b>DESCRIPTION:</b> Blank</p> <p><b>DATE SAMPLED:</b> 24-Feb-20      10:20      <b>DATE RECEIVED:</b> 26-Feb-20</p> <p><b>REPORT CREATED:</b> 12-Mar-20      <b>REPORT NUMBER:</b> 20020190</p> <p style="text-align: right;"><b>VERSION:</b> Version 01</p>
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Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	04-Mar-20
20020190-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	04-Mar-20
20020190-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	04-Mar-20
20020190-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	04-Mar-20
20020190-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	04-Mar-20
20020190-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	04-Mar-20
20020190-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	04-Mar-20
20020190-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	04-Mar-20
20020190-002	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Mar-20
20020190-002	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Mar-20
20020190-002	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20

<b>CLIENT SAMPLE ID</b> Methane_Blank-Reno-20200224 14:30	<b>CANISTER ID</b> 28944	<b>Matrix</b> Ambient Air	<b>DATE SAMPLED</b> 24-Feb-20 10:20
<b>DESCRIPTION:</b> Blank			
<b>REPORT NUMBER:</b> 20020190	<b>REPORT CREATED:</b> 12-Mar-20		<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-002	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Mar-20
20020190-002	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Mar-20
20020190-002	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Mar-20
20020190-002	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	Hydrogen sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	Isopropyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Mar-20
20020190-002	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-002	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-002	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-002	Thiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Mar-20
20020190-002	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1,1-Dichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	28-Feb-20
20020190-002	1,2,4-Trichlorobenzene	K, T, U	< 0.8 ppbv	0.8	AC-058	28-Feb-20
20020190-002	1,2,4-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	28-Feb-20
20020190-002	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20

Report certified by: Rebecca Holgate, Account Coordinator

On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: Thursday, March 12, 2020

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
Methane_Blank-Reno-20200224 14:30	28944	Ambient Air	24-Feb-20 10:20
<b>DESCRIPTION:</b>	Blank		
<b>REPORT NUMBER:</b>	20020190	<b>REPORT CREATED:</b>	12-Mar-20
		<b>VERSION:</b>	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-002	1,2-Dichloroethane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	1,2-Dichloropropane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	1,3,5-Trimethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1,3-Butadiene	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1,3-Dichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	28-Feb-20
20020190-002	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	1,4-Dioxane	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	1-Butene/Isobutylene	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	1-Pentene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	2,2,4-Trimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	2,2-Dimethylbutane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	2,3,4-Trimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	2,3-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	2,3-Dimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	2,4-Dimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	2-Methylheptane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	2-Methylhexane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	2-Methylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	3-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	3-Methylhexane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	3-Methylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Acetone	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	Acrolein	K, T, U	< 0.3 ppbv	0.3	AC-058	28-Feb-20
20020190-002	Benzene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
Methane_Blank-Reno-20200224 14:30	28944	Ambient Air	24-Feb-20	10:20
<b>DESCRIPTION:</b>	Blank			
<b>REPORT NUMBER:</b>	20020190	<b>REPORT CREATED:</b>	12-Mar-20	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-002	Benzyl chloride	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	Bromodichloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Bromomethane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Carbon disulfide	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Carbon tetrachloride	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Chloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	cis-1,2-Dichloroethene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	cis-1,3-Dichloropropene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-002	cis-2-Butene	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Cyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Cyclopentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Dibromochloromethane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Ethanol	K, T, U	< 0.3 ppbv	0.3	AC-058	28-Feb-20
20020190-002	Ethyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	Ethylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Freon-113	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Freon-114	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Freon-12	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Hexachloro-1,3-butadiene	K, T, U	< 0.50 ppbv	0.50	AC-058	28-Feb-20

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
Methane_Blank-Reno-20200224 14:30	28944	Ambient Air	24-Feb-20	10:20
<b>DESCRIPTION:</b>	Blank			
<b>REPORT NUMBER:</b>	20020190	<b>REPORT CREATED:</b>	12-Mar-20	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-002	Isobutane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Isopentane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-002	Isoprene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Isopropyl alcohol	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	Isopropylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	m,p-Xylene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-002	m-Diethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-002	m-Ethyltoluene	K, T, U	< 0.08 ppbv	0.08	AC-058	28-Feb-20
20020190-002	Methyl butyl ketone	K, T, U	< 0.50 ppbv	0.50	AC-058	28-Feb-20
20020190-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	28-Feb-20
20020190-002	Methyl isobutyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	Methyl methacrylate	K, T, U	< 0.07 ppbv	0.07	AC-058	28-Feb-20
20020190-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-002	Methylcyclohexane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	Methylcyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	28-Feb-20
20020190-002	n-Butane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20
20020190-002	n-Dodecane	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	n-Heptane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	n-Hexane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	n-Octane	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	n-Pentane	K, T, U	< 0.1 ppbv	0.1	AC-058	28-Feb-20
20020190-002	n-Propylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	28-Feb-20
20020190-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	28-Feb-20

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
Methane_Blank-Reno-20200224 14:30	28944	Ambient Air	24-Feb-20 10:20
<b>DESCRIPTION:</b> Blank			
<b>REPORT NUMBER:</b> 20020190	<b>REPORT CREATED:</b> 12-Mar-20		<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-002	Naphthalene	K, T, U	< 0.5 ppbv	0.5	AC-058	28-Feb-20
20020190-002	n-Nonane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	o-Ethyltoluene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	o-Xylene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	p-Diethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-002	p-Ethyltoluene	K, T, U	< 0.07 ppbv	0.07	AC-058	28-Feb-20
20020190-002	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-002	Tetrachloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-002	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	Toluene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	trans-1,2-Dichloroethylene	I	0.02 ppbv	0.01	AC-058	28-Feb-20
20020190-002	trans-1,3-Dichloropropylene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-002	trans-2-Butene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20
20020190-002	Trichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-002	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	28-Feb-20

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-20200224 14:30	32230	Ambient Air	24-Feb-20 14:30
<b>DESCRIPTION:</b>	Methane Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
20020190	12-Mar-20		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-001	1-Butene	K, T, U	< 0.15 ppmv	0.15	NA-025	04-Mar-20
20020190-001	Acetylene	K, T, U	< 0.12 ppmv	0.12	NA-025	04-Mar-20
20020190-001	n-Butane	K, T, U	< 0.3 ppmv	0.3	NA-025	04-Mar-20
20020190-001	cis-2-Butene	K, T, U	< 0.06 ppmv	0.06	NA-025	04-Mar-20
20020190-001	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-001	Ethylacetylene	K, T, U	< 0.09 ppmv	0.09	NA-025	04-Mar-20
20020190-001	Ethylene	K, T, U	< 0.10 ppmv	0.10	NA-025	04-Mar-20
20020190-001	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-001	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-001	Methane		2.8 ppmv	0.1	NA-025	04-Mar-20
20020190-001	n-Propane	K, T, U	< 0.10 ppmv	0.10	NA-025	04-Mar-20
20020190-001	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-001	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	04-Mar-20
20020190-001	trans-2-Butene	K, T, U	< 0.13 ppmv	0.13	NA-025	04-Mar-20
20020190-001	2,5-Dimethylthiophene	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-001	2-Ethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-001	2-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-001	3-Methylthiophene	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-001	Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-001	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-001	Carbonyl sulphide		0.5 ppbv	0.4	NA-024	02-Mar-20
20020190-001	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-001	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-001	Ethyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-001	Ethyl sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_Reno-20200224 14:30	32230	Ambient Air	24-Feb-20	14:30
<b>DESCRIPTION:</b>	Methane Trigger			
<b>REPORT NUMBER:</b>	20020190	<b>REPORT CREATED:</b>	12-Mar-20	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-001	Hydrogen sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-001	Isobutyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-001	Isopropyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-001	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-001	Pentyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	02-Mar-20
20020190-001	Propyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	02-Mar-20
20020190-001	tert-Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Mar-20
20020190-001	Thiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Mar-20
20020190-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1,1-Dichloroethane	I	0.06 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1,1-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20
20020190-001	1,2,3-Trimethylbenzene	K, T, U	< 0.07 ppbv	0.07	AC-058	28-Feb-20
20020190-001	1,2,4-Trichlorobenzene	K, T, U	< 1.2 ppbv	1.2	AC-058	28-Feb-20
20020190-001	1,2,4-Trimethylbenzene	K, T, U	< 0.07 ppbv	0.07	AC-058	28-Feb-20
20020190-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1,2-Dichlorobenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-001	1,2-Dichloroethane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	1,2-Dichloropropane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	1,3,5-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1,3-Butadiene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1,3-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-001	1,4-Dichlorobenzene	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	1,4-Dioxane	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20



<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-20200224 14:30	32230	Ambient Air	24-Feb-20 14:30
<b>DESCRIPTION:</b>	Methane Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
20020190	12-Mar-20		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-001	1-Butene/Isobutylene	I	0.06 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	1-Pentene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	2,2,4-Trimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	2,2-Dimethylbutane		0.13 ppbv	0.01	AC-058	28-Feb-20
20020190-001	2,3,4-Trimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	2,3-Dimethylbutane		0.20 ppbv	0.03	AC-058	28-Feb-20
20020190-001	2,3-Dimethylpentane		0.36 ppbv	0.03	AC-058	28-Feb-20
20020190-001	2,4-Dimethylpentane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	2-Methylheptane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	2-Methylhexane		0.30 ppbv	0.01	AC-058	28-Feb-20
20020190-001	2-Methylpentane		0.63 ppbv	0.01	AC-058	28-Feb-20
20020190-001	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	3-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	3-Methylpentane		0.31 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Acetone		1.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	Acrolein	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-001	Benzene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Benzyl chloride	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Bromoform	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Bromomethane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Carbon disulfide	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Carbon tetrachloride	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Chlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-20200224 14:30	32230	Ambient Air	24-Feb-20 14:30
<b>DESCRIPTION:</b>	Methane Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
20020190	12-Mar-20		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-001	Chloroethane	I	0.10 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Chloroform	I	0.19 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Chloromethane	I	0.39 ppbv	0.03	AC-058	28-Feb-20
20020190-001	cis-1,2-Dichloroethene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	cis-1,3-Dichloropropene	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20
20020190-001	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	cis-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Cyclohexane		0.20 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Cyclopentane		0.17 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Dibromochloromethane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Ethanol		0.9 ppbv	0.4	AC-058	28-Feb-20
20020190-001	Ethyl acetate	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	Ethylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Freon-11	I	0.26 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Freon-113	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Freon-12	I	0.42 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Hexachloro-1,3-butadiene	K, T, U	< 0.74 ppbv	0.74	AC-058	28-Feb-20
20020190-001	Isobutane		0.49 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Isopentane		0.55 ppbv	0.04	AC-058	28-Feb-20
20020190-001	Isoprene		0.25 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Isopropyl alcohol	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	Isopropylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	m,p-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-001	m-Diethylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_Reno-20200224 14:30	32230	Ambient Air	24-Feb-20	14:30
<b>DESCRIPTION:</b>	Methane Trigger			
<b>REPORT NUMBER:</b>	20020190	<b>REPORT CREATED:</b>	12-Mar-20	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-001	m-Ethyltoluene	K, T, U	< 0.12 ppbv	0.12	AC-058	28-Feb-20
20020190-001	Methyl butyl ketone	K, T, U	< 0.74 ppbv	0.74	AC-058	28-Feb-20
20020190-001	Methyl ethyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-001	Methyl isobutyl ketone	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	Methyl methacrylate	K, T, U	< 0.10 ppbv	0.10	AC-058	28-Feb-20
20020190-001	Methyl tert butyl ether	K, T, U	< 0.04 ppbv	0.04	AC-058	28-Feb-20
20020190-001	Methylcyclohexane		0.58 ppbv	0.01	AC-058	28-Feb-20
20020190-001	Methylcyclopentane		0.44 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Methylene chloride	K, T, U	< 0.4 ppbv	0.4	AC-058	28-Feb-20
20020190-001	n-Butane		0.78 ppbv	0.04	AC-058	28-Feb-20
20020190-001	n-Decane	K, T, U	< 0.09 ppbv	0.09	AC-058	28-Feb-20
20020190-001	n-Dodecane	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	n-Heptane		0.51 ppbv	0.01	AC-058	28-Feb-20
20020190-001	n-Hexane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	n-Octane	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	n-Pentane		0.2 ppbv	0.1	AC-058	28-Feb-20
20020190-001	n-Propylbenzene	K, T, U	< 0.07 ppbv	0.07	AC-058	28-Feb-20
20020190-001	n-Undecane	K, T, U	< 0.7 ppbv	0.7	AC-058	28-Feb-20
20020190-001	Naphthalene	K, T, U	< 0.7 ppbv	0.7	AC-058	28-Feb-20
20020190-001	n-Nonane	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	o-Ethyltoluene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	o-Xylene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	p-Diethylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20
20020190-001	p-Ethyltoluene	K, T, U	< 0.10 ppbv	0.10	AC-058	28-Feb-20
20020190-001	Styrene	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20

Report certified by: Rebecca Holgate, Account Coordinator

On behalf of: PJ Pretorius, Manager, Analysis and Testing Services

Date: Thursday, March 12, 2020

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-20200224 14:30	32230	Ambient Air	24-Feb-20 14:30
<b>DESCRIPTION:</b>	Methane Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>		<b>VERSION:</b>
20020190	12-Mar-20		Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20020190-001	Tetrachloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20
20020190-001	Tetrahydrofuran	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	Toluene		0.57 ppbv	0.01	AC-058	28-Feb-20
20020190-001	trans-1,2-Dichloroethylene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	trans-1,3-Dichloropropylene	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20
20020190-001	trans-2-Butene	K, T, U	< 0.01 ppbv	0.01	AC-058	28-Feb-20
20020190-001	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20
20020190-001	Trichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	28-Feb-20
20020190-001	Vinyl acetate	K, T, U	< 0.6 ppbv	0.6	AC-058	28-Feb-20
20020190-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	28-Feb-20



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Canada T9C 1T4  
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## ENVIRONMENTAL ANALYTICAL SERVICES

### TEST REPORT

### Revision History

Order ID	Ver	Date	Reason
20020190	01	12-Mar-20	Report created

## **Methods**

<b>Method</b>	<b>Description</b>
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
NA-024	Analysis for Reduced Sulfur Compounds in Air Samples
NA-025	Determination of Light Hydrocarbons (C1C4) in Ambient Air by Gas Chromatography Flame Ionization Detector

## Qualifiers

<b>Data Qualifier</b>	<b>Translation</b>
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B	Blank contamination; Analyte detected above the method reporting limit in an associated blank
I	The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit
J1	Reported value is estimated; Surrogate recoveries limits were exceeded
J2	Reported value is estimated; No known QC criteria for this component
J3	Reported value is estimated; The value failed to meet QC criteria for either precision or accuracy
J4	Reported value is estimated; The sample matrix interfered with the analysis
K	Off-scale low. Actual value is known to be less than the value given
L	Off-scale high. Actual value is known to be greater than value given
N	Non-target analyte; Tentatively identified compound (using mass spectroscopy)
Q	Sample held beyond the accepted holding time
R	Rejected data; Not suitable for the projects intended use
T	Value reported is less than the laboratory method detection limit
U	Compound was analyzed for but not detected
V	Analyte was detected in both the sample and the associated method blank



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## ENVIRONMENTAL ANALYTICAL SERVICES

### TEST REPORT

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### Order Comments

20020190

Please return sample #1 to reception when finished, as sample needs further analysis.





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## ENVIRONMENTAL ANALYTICAL SERVICES

### TEST REPORT

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### Sample Comments



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## ENVIRONMENTAL ANALYTICAL SERVICES

### TEST REPORT

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### **Result Comments**

*Note:*

- 1. Results relate only to items tested and apply to the sample as received.*
- 2. This report shall not be reproduced, except in full, without the explicit approval of the laboratory.*