

<p><b>RESULTS:</b> Karla Reesor                      403 807 2995 Peace River Area Monitoring Program Committee</p> <p><b>INVOICE:</b> Office Manager</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;"><b>CLIENT SAMPLE ID</b></td> <td style="width: 33%;"><b>CANISTER ID</b></td> <td style="width: 33%;"><b>Matrix</b></td> <td style="width: 15%;"><b>Priority</b></td> </tr> <tr> <td>PRAMP_RENO-20190118</td> <td>28882</td> <td>Ambient Air</td> <td>Normal</td> </tr> <tr> <td colspan="4"> <b>DESCRIPTION:</b> Methane Trigger</td> </tr> <tr> <td><b>DATE SAMPLED:</b></td> <td>18-Jan-19      14:05</td> <td><b>DATE RECEIVED:</b></td> <td>22-Jan-19</td> </tr> <tr> <td><b>REPORT CREATED:</b></td> <td>01-Feb-19</td> <td><b>REPORT NUMBER:</b></td> <td>19010213</td> </tr> <tr> <td></td> <td></td> <td><b>VERSION:</b></td> <td>Version 01</td> </tr> </table>	<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>Priority</b>	PRAMP_RENO-20190118	28882	Ambient Air	Normal	 <b>DESCRIPTION:</b> Methane Trigger				<b>DATE SAMPLED:</b>	18-Jan-19      14:05	<b>DATE RECEIVED:</b>	22-Jan-19	<b>REPORT CREATED:</b>	01-Feb-19	<b>REPORT NUMBER:</b>	19010213			<b>VERSION:</b>	Version 01
<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>Priority</b>																						
PRAMP_RENO-20190118	28882	Ambient Air	Normal																						
 <b>DESCRIPTION:</b> Methane Trigger																									
<b>DATE SAMPLED:</b>	18-Jan-19      14:05	<b>DATE RECEIVED:</b>	22-Jan-19																						
<b>REPORT CREATED:</b>	01-Feb-19	<b>REPORT NUMBER:</b>	19010213																						
		<b>VERSION:</b>	Version 01																						

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-002	1-Butene	K, T, U	< 0.14	ppmv	0.14	NA-025	23-Jan-19
19010213-002	Acetylene	K, T, U	< 0.12	ppmv	0.12	NA-025	23-Jan-19
19010213-002	n-Butane	K, T, U	< 0.3	ppmv	0.3	NA-025	23-Jan-19
19010213-002	cis-2-Butene	K, T, U	< 0.06	ppmv	0.06	NA-025	23-Jan-19
19010213-002	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	23-Jan-19
19010213-002	Ethylacetylene	K, T, U	< 0.09	ppmv	0.09	NA-025	23-Jan-19
19010213-002	Ethylene	K, T, U	< 0.10	ppmv	0.10	NA-025	23-Jan-19
19010213-002	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	23-Jan-19
19010213-002	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	23-Jan-19
19010213-002	Methane		2.0	ppmv	0.1	NA-025	23-Jan-19
19010213-002	n-Propane	K, T, U	< 0.10	ppmv	0.10	NA-025	23-Jan-19
19010213-002	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	23-Jan-19
19010213-002	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	23-Jan-19
19010213-002	trans-2-Butene	K, T, U	< 0.13	ppmv	0.13	NA-025	23-Jan-19
19010213-002	2,5-Dimethylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-002	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-002	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-002	3-Methylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_RENO-20190118	28882	Ambient Air	18-Jan-19 14:05
<b>DESCRIPTION:</b>	Methane Trigger		
<b>REPORT NUMBER:</b>	19010213	<b>REPORT CREATED:</b>	01-Feb-19
			<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-002	Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-002	Carbon disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-002	Carbonyl sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-002	Dimethyl disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-002	Dimethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-002	Ethyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-002	Ethyl sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-002	Hydrogen sulphide		2.3	ppbv	0.1	NA-024	23-Jan-19
19010213-002	Isobutyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-002	Isopropyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-002	Methyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-002	Pentyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	23-Jan-19
19010213-002	Propyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	23-Jan-19
19010213-002	tert-Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-002	Thiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-002	1,1,1-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1,1,2-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1,1-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1,1-Dichloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	24-Jan-19
19010213-002	1,2,3-Trimethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	24-Jan-19
19010213-002	1,2,4-Trichlorobenzene	K, T, U	< 1.2	ppbv	1.2	AC-058	24-Jan-19
19010213-002	1,2,4-Trimethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	24-Jan-19
19010213-002	1,2-Dibromoethane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1,2-Dichlorobenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	24-Jan-19

**Report certified by:** Krista Gegolick, Account Coordinator

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

**Date:** February-01-19

**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-20190118	28882	Ambient Air	18-Jan-19	14:05
<b>DESCRIPTION:</b>	Methane Trigger			
<b>REPORT NUMBER:</b>	19010213	<b>REPORT CREATED:</b>	01-Feb-19	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-002	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	24-Jan-19
19010213-002	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	1,4-Dioxane	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	1-Butene/Isobutylene	I	0.27	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	1-Pentene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	2,2-Dimethylbutane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	2,3-Dimethylbutane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	2,3-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	2-Methylhexane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	2-Methylpentane		0.11	ppbv	0.01	AC-058	24-Jan-19
19010213-002	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	3-Methylhexane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	3-Methylpentane		0.02	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Acetone		1.0	ppbv	0.6	AC-058	24-Jan-19
19010213-002	Acrolein	K, T, U	< 0.4	ppbv	0.4	AC-058	24-Jan-19
19010213-002	Benzene		0.18	ppbv	0.01	AC-058	24-Jan-19

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_RENO-20190118	28882	Ambient Air	18-Jan-19	14:05
<b>DESCRIPTION:</b>	Methane Trigger			
<b>REPORT NUMBER:</b>	19010213	<b>REPORT CREATED:</b>	01-Feb-19	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-002	Benzyl chloride	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Bromoform	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Bromomethane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Carbon disulfide	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Carbon tetrachloride	I	0.04	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Chloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Chloroform	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Chloromethane		0.59	ppbv	0.03	AC-058	24-Jan-19
19010213-002	cis-1,2-Dichloroethene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	cis-1,3-Dichloropropene	K, T, U	< 0.06	ppbv	0.06	AC-058	24-Jan-19
19010213-002	cis-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	cis-2-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Cyclohexane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Cyclopentane		5.84	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Dibromochloromethane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Ethanol		1.7	ppbv	0.4	AC-058	24-Jan-19
19010213-002	Ethyl acetate	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	Ethylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Freon-11	I	0.23	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Freon-113	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Freon-114	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Freon-12		0.53	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Hexachloro-1,3-butadiene	K, T, U	< 0.72	ppbv	0.72	AC-058	24-Jan-19

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PRAMP_RENO-20190118	28882	Ambient Air	18-Jan-19	14:05
<b>DESCRIPTION:</b>	Methane Trigger			
<b>REPORT NUMBER:</b>	19010213	<b>REPORT CREATED:</b>	01-Feb-19	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-002	Isobutane		0.51	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Isopentane		0.71	ppbv	0.04	AC-058	24-Jan-19
19010213-002	Isoprene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Isopropyl alcohol	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	m,p-Xylene	K, T, U	< 0.04	ppbv	0.04	AC-058	24-Jan-19
19010213-002	m-Diethylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	24-Jan-19
19010213-002	m-Ethyltoluene	K, T, U	< 0.12	ppbv	0.12	AC-058	24-Jan-19
19010213-002	Methyl butyl ketone	K, T, U	< 0.72	ppbv	0.72	AC-058	24-Jan-19
19010213-002	Methyl ethyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	24-Jan-19
19010213-002	Methyl isobutyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	Methyl methacrylate	K, T, U	< 0.10	ppbv	0.10	AC-058	24-Jan-19
19010213-002	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	24-Jan-19
19010213-002	Methylcyclohexane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	Methylcyclopentane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	24-Jan-19
19010213-002	n-Butane		1.01	ppbv	0.04	AC-058	24-Jan-19
19010213-002	n-Decane	K, T, U	< 0.09	ppbv	0.09	AC-058	24-Jan-19
19010213-002	n-Dodecane	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	n-Heptane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	n-Hexane		0.02	ppbv	0.01	AC-058	24-Jan-19
19010213-002	n-Octane	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	n-Pentane		0.5	ppbv	0.1	AC-058	24-Jan-19
19010213-002	n-Propylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	24-Jan-19
19010213-002	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	24-Jan-19

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_RENO-20190118	28882	Ambient Air	18-Jan-19	14:05
<b>DESCRIPTION:</b>	Methane Trigger			
<b>REPORT NUMBER:</b>	19010213	<b>REPORT CREATED:</b>	01-Feb-19	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-002	Naphthalene	K, T, U	< 0.7	ppbv	0.7	AC-058	24-Jan-19
19010213-002	n-Nonane	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	o-Ethyltoluene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	o-Xylene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	p-Diethylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	24-Jan-19
19010213-002	p-Ethyltoluene	K, T, U	< 0.10	ppbv	0.10	AC-058	24-Jan-19
19010213-002	Styrene	K, T, U	< 0.06	ppbv	0.06	AC-058	24-Jan-19
19010213-002	Tetrachloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	24-Jan-19
19010213-002	Tetrahydrofuran	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	Toluene		0.03	ppbv	0.01	AC-058	24-Jan-19
19010213-002	trans-1,2-Dichloroethylene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	trans-1,3-Dichloropropylene	K, T, U	< 0.06	ppbv	0.06	AC-058	24-Jan-19
19010213-002	trans-2-Butene	K, T, U	< 0.01	ppbv	0.01	AC-058	24-Jan-19
19010213-002	trans-2-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19
19010213-002	Trichloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	24-Jan-19
19010213-002	Vinyl acetate	K, T, U	< 0.6	ppbv	0.6	AC-058	24-Jan-19
19010213-002	Vinyl chloride	K, T, U	< 0.03	ppbv	0.03	AC-058	24-Jan-19

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_RENO-BLANK	28908	Ambient Air	18-Jan-19
<b>DESCRIPTION:</b>	Methane Trigger		
<b>REPORT NUMBER:</b>	19010213	<b>REPORT CREATED:</b>	01-Feb-19
			<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-001	1-Butene	K, T, U	< 2.64	ppmv	2.64	NA-025	23-Jan-19
19010213-001	Acetylene	K, T, U	< 2.11	ppmv	2.11	NA-025	23-Jan-19
19010213-001	n-Butane	K, T, U	< 5.3	ppmv	5.3	NA-025	23-Jan-19
19010213-001	cis-2-Butene	K, T, U	< 1.06	ppmv	1.06	NA-025	23-Jan-19
19010213-001	Ethane	K, T, U	< 2.6	ppmv	2.6	NA-025	23-Jan-19
19010213-001	Ethylacetylene	K, T, U	< 1.59	ppmv	1.59	NA-025	23-Jan-19
19010213-001	Ethylene	K, T, U	< 1.85	ppmv	1.85	NA-025	23-Jan-19
19010213-001	Isobutane	K, T, U	< 2.6	ppmv	2.6	NA-025	23-Jan-19
19010213-001	Isobutylene	K, T, U	< 2.6	ppmv	2.6	NA-025	23-Jan-19
19010213-001	Methane	K, T, U	< 2.6	ppmv	2.6	NA-025	23-Jan-19
19010213-001	n-Propane	K, T, U	< 1.85	ppmv	1.85	NA-025	23-Jan-19
19010213-001	Propylene	K, T, U	< 2.6	ppmv	2.6	NA-025	23-Jan-19
19010213-001	Propyne	K, T, U	< 2.6	ppmv	2.6	NA-025	23-Jan-19
19010213-001	trans-2-Butene	K, T, U	< 2.38	ppmv	2.38	NA-025	23-Jan-19
19010213-001	2,5-Dimethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-001	2-Ethylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	23-Jan-19
19010213-001	2-Methylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	23-Jan-19
19010213-001	3-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-001	Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-001	Carbon disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	23-Jan-19
19010213-001	Carbonyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-001	Dimethyl disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	23-Jan-19
19010213-001	Dimethyl sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	23-Jan-19
19010213-001	Ethyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-001	Ethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19

**Report certified by:** Graham Knox, Admin. & Ops. Supervisor

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

**Date:** February-01-19

**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-BLANK	28908	Ambient Air	18-Jan-19
<b>DESCRIPTION:</b>	Methane Trigger		
<b>REPORT NUMBER:</b>	19010213	<b>REPORT CREATED:</b>	01-Feb-19
			<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-001	Hydrogen sulphide	K, T, U	< 0.1	ppbv	0.1	NA-024	23-Jan-19
19010213-001	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-001	Isopropyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-001	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	23-Jan-19
19010213-001	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-001	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	23-Jan-19
19010213-001	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	23-Jan-19
19010213-001	Thiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	23-Jan-19
19010213-001	1,1,1-Trichloroethane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1,1,2-Trichloroethane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1,1-Dichloroethane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1,1-Dichloroethylene	K, T, U	< 1.06	ppbv	1.06	AC-058	24-Jan-19
19010213-001	1,2,3-Trimethylbenzene	K, T, U	< 1.32	ppbv	1.32	AC-058	24-Jan-19
19010213-001	1,2,4-Trichlorobenzene	K, T, U	< 21.1	ppbv	21.1	AC-058	24-Jan-19
19010213-001	1,2,4-Trimethylbenzene	K, T, U	< 1.32	ppbv	1.32	AC-058	24-Jan-19
19010213-001	1,2-Dibromoethane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1,2-Dichlorobenzene	K, T, U	< 0.79	ppbv	0.79	AC-058	24-Jan-19
19010213-001	1,2-Dichloroethane	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	1,2-Dichloropropane	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	1,3,5-Trimethylbenzene	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1,3-Butadiene	I	3.16	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1,3-Dichlorobenzene	K, T, U	< 7.9	ppbv	7.9	AC-058	24-Jan-19
19010213-001	1,4-Dichlorobenzene	K, T, U	< 10.6	ppbv	10.6	AC-058	24-Jan-19
19010213-001	1,4-Dioxane	K, T, U	< 10.6	ppbv	10.6	AC-058	24-Jan-19

**Report certified by:** Krista Gegolick, Account Coordinator

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

**Date:** February-01-19

**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-BLANK	28908	Ambient Air	18-Jan-19
<b>DESCRIPTION:</b>	Methane Trigger		
<b>REPORT NUMBER:</b>	19010213	<b>REPORT CREATED:</b>	01-Feb-19
			<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-001	1-Butene/Isobutylene		12.1	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	1-Pentene	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	2,2,4-Trimethylpentane	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	2,2-Dimethylbutane		2.31	ppbv	0.26	AC-058	24-Jan-19
19010213-001	2,3,4-Trimethylpentane	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	2,3-Dimethylbutane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	2,3-Dimethylpentane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	2,4-Dimethylpentane	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	2-Methylheptane		0.69	ppbv	0.26	AC-058	24-Jan-19
19010213-001	2-Methylhexane		1.09	ppbv	0.26	AC-058	24-Jan-19
19010213-001	2-Methylpentane		3.32	ppbv	0.26	AC-058	24-Jan-19
19010213-001	3-Methylheptane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	3-Methylhexane		1.90	ppbv	0.53	AC-058	24-Jan-19
19010213-001	3-Methylpentane		0.44	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Acetone		13.9	ppbv	10.6	AC-058	24-Jan-19
19010213-001	Acrolein	K, T, U	< 7.9	ppbv	7.9	AC-058	24-Jan-19
19010213-001	Benzene		3.66	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Benzyl chloride	K, T, U	< 10.6	ppbv	10.6	AC-058	24-Jan-19
19010213-001	Bromodichloromethane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Bromoform	I	1.06	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Bromomethane	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Carbon disulfide	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Carbon tetrachloride	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Chlorobenzene	I	0.81	ppbv	0.53	AC-058	24-Jan-19

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

**Date:** February-01-19

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PRAMP_RENO-BLANK	28908	Ambient Air	18-Jan-19
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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-001	Chloroethane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Chloroform	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Chloromethane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	cis-1,2-Dichloroethene	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	cis-1,3-Dichloropropene	K, T, U	< 1.06	ppbv	1.06	AC-058	24-Jan-19
19010213-001	cis-2-Butene		1.35	ppbv	0.53	AC-058	24-Jan-19
19010213-001	cis-2-Pentene	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Cyclohexane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Cyclopentane		509	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Dibromochloromethane	I	0.51	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Ethanol		16.0	ppbv	7.9	AC-058	24-Jan-19
19010213-001	Ethyl acetate	K, T, U	< 10.6	ppbv	10.6	AC-058	24-Jan-19
19010213-001	Ethylbenzene		1.11	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Freon-11	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Freon-113	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Freon-114	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Freon-12	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Hexachloro-1,3-butadiene	K, T, U	< 13.2	ppbv	13.2	AC-058	24-Jan-19
19010213-001	Isobutane		4.99	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Isopentane		35.8	ppbv	0.79	AC-058	24-Jan-19
19010213-001	Isoprene	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Isopropyl alcohol	K, T, U	< 10.6	ppbv	10.6	AC-058	24-Jan-19
19010213-001	Isopropylbenzene		0.53	ppbv	0.26	AC-058	24-Jan-19
19010213-001	m,p-Xylene		2.52	ppbv	0.79	AC-058	24-Jan-19
19010213-001	m-Diethylbenzene	K, T, U	< 1.06	ppbv	1.06	AC-058	24-Jan-19

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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19010213-001	m-Ethyltoluene	K, T, U	< 2.11	ppbv	2.11	AC-058	24-Jan-19
19010213-001	Methyl butyl ketone	K, T, U	< 13.2	ppbv	13.2	AC-058	24-Jan-19
19010213-001	Methyl ethyl ketone	K, T, U	< 7.9	ppbv	7.9	AC-058	24-Jan-19
19010213-001	Methyl isobutyl ketone	K, T, U	< 10.6	ppbv	10.6	AC-058	24-Jan-19
19010213-001	Methyl methacrylate	K, T, U	< 1.85	ppbv	1.85	AC-058	24-Jan-19
19010213-001	Methyl tert butyl ether	K, T, U	< 0.79	ppbv	0.79	AC-058	24-Jan-19
19010213-001	Methylcyclohexane	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	Methylcyclopentane	K, T, U	< 0.53	ppbv	0.53	AC-058	24-Jan-19
19010213-001	Methylene chloride	K, T, U	< 7.9	ppbv	7.9	AC-058	24-Jan-19
19010213-001	n-Butane		18.1	ppbv	0.79	AC-058	24-Jan-19
19010213-001	n-Decane	K, T, U	< 1.59	ppbv	1.59	AC-058	24-Jan-19
19010213-001	n-Dodecane	K, T, U	< 10.6	ppbv	10.6	AC-058	24-Jan-19
19010213-001	n-Heptane		0.99	ppbv	0.26	AC-058	24-Jan-19
19010213-001	n-Hexane		0.65	ppbv	0.26	AC-058	24-Jan-19
19010213-001	n-Octane		1.19	ppbv	0.53	AC-058	24-Jan-19
19010213-001	n-Pentane		15.8	ppbv	2.6	AC-058	24-Jan-19
19010213-001	n-Propylbenzene	K, T, U	< 1.32	ppbv	1.32	AC-058	24-Jan-19
19010213-001	n-Undecane	K, T, U	< 13.2	ppbv	13.2	AC-058	24-Jan-19
19010213-001	Naphthalene	K, T, U	< 13.2	ppbv	13.2	AC-058	24-Jan-19
19010213-001	n-Nonane		0.97	ppbv	0.26	AC-058	24-Jan-19
19010213-001	o-Ethyltoluene	K, T, U	< 0.26	ppbv	0.26	AC-058	24-Jan-19
19010213-001	o-Xylene		0.55	ppbv	0.26	AC-058	24-Jan-19
19010213-001	p-Diethylbenzene	K, T, U	< 1.06	ppbv	1.06	AC-058	24-Jan-19
19010213-001	p-Ethyltoluene	K, T, U	< 1.85	ppbv	1.85	AC-058	24-Jan-19
19010213-001	Styrene	I	2.18	ppbv	1.06	AC-058	24-Jan-19

**Report certified by:** Krista Gegolick, Account Coordinator

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

**Date:** February-01-19

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PRAMP_RENO-BLANK	28908	Ambient Air	18-Jan-19
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Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19010213-001	Tetrachloroethylene	I	1.77 ppbv	1.06	AC-058	24-Jan-19
19010213-001	Tetrahydrofuran	K, T, U	< 10.6 ppbv	10.6	AC-058	24-Jan-19
19010213-001	Toluene		7.25 ppbv	0.26	AC-058	24-Jan-19
19010213-001	trans-1,2-Dichloroethylene	K, T, U	< 0.26 ppbv	0.26	AC-058	24-Jan-19
19010213-001	trans-1,3-Dichloropropylene	K, T, U	< 1.06 ppbv	1.06	AC-058	24-Jan-19
19010213-001	trans-2-Butene		2.11 ppbv	0.26	AC-058	24-Jan-19
19010213-001	trans-2-Pentene	K, T, U	< 0.53 ppbv	0.53	AC-058	24-Jan-19
19010213-001	Trichloroethylene	K, T, U	< 1.06 ppbv	1.06	AC-058	24-Jan-19
19010213-001	Vinyl acetate	K, T, U	< 10.6 ppbv	10.6	AC-058	24-Jan-19
19010213-001	Vinyl chloride	K, T, U	< 0.53 ppbv	0.53	AC-058	24-Jan-19

**Report certified by:** Krista Gegolick, Account Coordinator

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

**Date:** February-01-19

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## ENVIRONMENTAL ANALYTICAL SERVICES

### TEST REPORT

### Revision History

Order ID	Ver	Date	Reason
19010213	01	01-Feb-19	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

### Data Qualifier Translation

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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

19010213

Send results to [pramptech@prampairshed.ca](mailto:pramptech@prampairshed.ca). Unknowns to be reported.





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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: Results relate only to items tested*