

<p>RESULTS: Karla Reesor 403 807 2995 Peace River Area Monitoring Program Committee</p> <p>INVOICE: Office Manager</p>	<table border="0" style="width: 100%;"> <tr> <td style="width: 33%;">CLIENT SAMPLE ID</td> <td style="width: 33%;">CANISTER ID</td> <td style="width: 33%;">Matrix</td> <td style="width: 15%;">Priority</td> </tr> <tr> <td>PRAMP_RENO-201803007</td> <td>1684</td> <td>Ambient Air</td> <td>Normal</td> </tr> <tr> <td colspan="4">DESCRIPTION:</td> </tr> <tr> <td>DATE SAMPLED:</td> <td>07-Mar-18 21:30</td> <td>DATE RECEIVED:</td> <td>12-Mar-18</td> </tr> <tr> <td>REPORT CREATED:</td> <td>23-Mar-18</td> <td>REPORT NUMBER:</td> <td>18030102</td> </tr> <tr> <td>REPORT REVISED:</td> <td>09-Apr-18</td> <td>VERSION:</td> <td>Version 02</td> </tr> </table>	CLIENT SAMPLE ID	CANISTER ID	Matrix	Priority	PRAMP_RENO-201803007	1684	Ambient Air	Normal	DESCRIPTION:				DATE SAMPLED:	07-Mar-18 21:30	DATE RECEIVED:	12-Mar-18	REPORT CREATED:	23-Mar-18	REPORT NUMBER:	18030102	REPORT REVISED:	09-Apr-18	VERSION:	Version 02
CLIENT SAMPLE ID	CANISTER ID	Matrix	Priority																						
PRAMP_RENO-201803007	1684	Ambient Air	Normal																						
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DATE SAMPLED:	07-Mar-18 21:30	DATE RECEIVED:	12-Mar-18																						
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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
18030102-001	1-Butene	K, T, U, Q	< 0.13	ppmv	0.13	NA-025	06-Apr-18
18030102-001	Acetylene	K, T, U, Q	< 0.3	ppmv	0.3	NA-025	06-Apr-18
18030102-001	n-Butane	K, T, U, Q	< 0.3	ppmv	0.3	NA-025	06-Apr-18
18030102-001	cis-2-Butene	K, T, U, Q	< 0.1	ppmv	0.1	NA-025	06-Apr-18
18030102-001	Ethane	K, T, U, Q	< 0.1	ppmv	0.1	NA-025	06-Apr-18
18030102-001	Ethylacetylene	K, T, U, Q	< 0.08	ppmv	0.08	NA-025	06-Apr-18
18030102-001	Ethylene	K, T, U, Q	< 0.3	ppmv	0.3	NA-025	06-Apr-18
18030102-001	Isobutane	K, T, U, Q	< 0.1	ppmv	0.1	NA-025	06-Apr-18
18030102-001	Isobutylene	K, T, U, Q	< 0.1	ppmv	0.1	NA-025	06-Apr-18
18030102-001	Methane	K, T, U, Q	4.5	ppmv	0.1	NA-025	06-Apr-18
18030102-001	n-Propane	K, T, U, Q	< 0.09	ppmv	0.09	NA-025	06-Apr-18
18030102-001	Propylene	K, T, U, Q	< 0.1	ppmv	0.1	NA-025	06-Apr-18
18030102-001	Propyne	K, T, U, Q	< 0.1	ppmv	0.1	NA-025	06-Apr-18
18030102-001	trans-2-Butene	K, T, U, Q	< 0.12	ppmv	0.12	NA-025	06-Apr-18
18030102-001	2,5-Dimethylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Mar-18
18030102-001	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Mar-18
18030102-001	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Mar-18
18030102-001	3-Methylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Mar-18

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_RENO-201803007	1684	Ambient Air	07-Mar-18	21:30
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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
18030102-001	Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Mar-18
18030102-001	Carbon disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Mar-18
18030102-001	Carbonyl sulphide		0.7	ppbv	0.4	NA-024	12-Mar-18
18030102-001	Dimethyl disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Mar-18
18030102-001	Dimethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Mar-18
18030102-001	Ethyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Mar-18
18030102-001	Ethyl sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Mar-18
18030102-001	Hydrogen sulphide	K, T, U	< 0.1	ppbv	0.1	NA-024	12-Mar-18
18030102-001	Isobutyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Mar-18
18030102-001	Isopropyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Mar-18
18030102-001	Methyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Mar-18
18030102-001	Pentyl mercaptan	K, T, U	< 0.5	ppbv	0.5	NA-024	12-Mar-18
18030102-001	Propyl mercaptan	K, T, U	< 0.5	ppbv	0.5	NA-024	12-Mar-18
18030102-001	tert-Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Mar-18
18030102-001	Thiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Mar-18
18030102-001	1,1,1-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1,1,2-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1,1-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1,1-Dichloroethylene	K, T, U	< 0.05	ppbv	0.05	AC-058	14-Mar-18
18030102-001	1,2,3-Trimethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	14-Mar-18
18030102-001	1,2,4-Trichlorobenzene	K, T, U	< 1.1	ppbv	1.1	AC-058	14-Mar-18
18030102-001	1,2,4-Trimethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	14-Mar-18
18030102-001	1,2-Dibromoethane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1,2-Dichlorobenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	14-Mar-18

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: Monday, April 09, 2018

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
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18030102-001	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	1,3,5-Trimethylbenzene		0.04	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1,3-Butadiene	I	0.09	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	14-Mar-18
18030102-001	1,4-Dichlorobenzene	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	1,4-Dioxane	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	1-Butene/Isobutylene		0.55	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	1-Pentene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	2,2-Dimethylbutane		0.04	ppbv	0.01	AC-058	14-Mar-18
18030102-001	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	2,3-Dimethylbutane		0.13	ppbv	0.03	AC-058	14-Mar-18
18030102-001	2,3-Dimethylpentane		0.10	ppbv	0.03	AC-058	14-Mar-18
18030102-001	2,4-Dimethylpentane		0.03	ppbv	0.01	AC-058	14-Mar-18
18030102-001	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	2-Methylhexane		0.10	ppbv	0.01	AC-058	14-Mar-18
18030102-001	2-Methylpentane		0.67	ppbv	0.01	AC-058	14-Mar-18
18030102-001	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	3-Methylhexane		0.16	ppbv	0.03	AC-058	14-Mar-18
18030102-001	3-Methylpentane		0.45	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Acetone		0.9	ppbv	0.5	AC-058	14-Mar-18
18030102-001	Acrolein	K, T, U	< 0.4	ppbv	0.4	AC-058	14-Mar-18
18030102-001	Benzene		0.13	ppbv	0.01	AC-058	14-Mar-18

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18030102-001	Benzyl chloride	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Bromoform	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Bromomethane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Carbon disulfide	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Carbon tetrachloride	I	0.06	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Chloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Chloroform	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Chloromethane		0.42	ppbv	0.03	AC-058	14-Mar-18
18030102-001	cis-1,2-Dichloroethene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	cis-1,3-Dichloropropene	K, T, U	< 0.05	ppbv	0.05	AC-058	14-Mar-18
18030102-001	cis-2-Butene		0.04	ppbv	0.03	AC-058	14-Mar-18
18030102-001	cis-2-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Cyclohexane		0.83	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Cyclopentane		0.17	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Dibromochloromethane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Ethanol		0.5	ppbv	0.4	AC-058	14-Mar-18
18030102-001	Ethyl acetate	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	Ethylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Freon-11	I	0.14	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Freon-113	I	0.07	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Freon-114	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Freon-12		0.63	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Hexachloro-1,3-butadiene	K, T, U	< 0.66	ppbv	0.66	AC-058	14-Mar-18

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18030102-001	Isobutane		1.63	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Isopentane		1.36	ppbv	0.04	AC-058	14-Mar-18
18030102-001	Isoprene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Isopropyl alcohol	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	m,p-Xylene		0.13	ppbv	0.04	AC-058	14-Mar-18
18030102-001	m-Diethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	14-Mar-18
18030102-001	m-Ethyltoluene	K, T, U	< 0.11	ppbv	0.11	AC-058	14-Mar-18
18030102-001	Methyl butyl ketone	K, T, U	< 0.66	ppbv	0.66	AC-058	14-Mar-18
18030102-001	Methyl ethyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	14-Mar-18
18030102-001	Methyl isobutyl ketone	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	Methyl methacrylate	K, T, U	< 0.09	ppbv	0.09	AC-058	14-Mar-18
18030102-001	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	14-Mar-18
18030102-001	Methylcyclohexane		1.25	ppbv	0.01	AC-058	14-Mar-18
18030102-001	Methylcyclopentane		0.87	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	14-Mar-18
18030102-001	n-Butane		2.18	ppbv	0.04	AC-058	14-Mar-18
18030102-001	n-Decane	K, T, U	< 0.08	ppbv	0.08	AC-058	14-Mar-18
18030102-001	n-Dodecane	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	n-Heptane		0.08	ppbv	0.01	AC-058	14-Mar-18
18030102-001	n-Hexane		0.19	ppbv	0.01	AC-058	14-Mar-18
18030102-001	n-Octane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	n-Pentane		0.9	ppbv	0.1	AC-058	14-Mar-18
18030102-001	n-Propylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	14-Mar-18
18030102-001	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	14-Mar-18

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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
18030102-001	Naphthalene	K, T, U	< 0.7	ppbv	0.7	AC-058	14-Mar-18
18030102-001	n-Nonane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	o-Ethyltoluene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	o-Xylene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	p-Diethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	14-Mar-18
18030102-001	p-Ethyltoluene	K, T, U	< 0.09	ppbv	0.09	AC-058	14-Mar-18
18030102-001	Styrene	K, T, U	< 0.05	ppbv	0.05	AC-058	14-Mar-18
18030102-001	Tetrachloroethylene	K, T, U	< 0.05	ppbv	0.05	AC-058	14-Mar-18
18030102-001	Tetrahydrofuran	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	Toluene		0.26	ppbv	0.01	AC-058	14-Mar-18
18030102-001	trans-1,2-Dichloroethylene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Mar-18
18030102-001	trans-1,3-Dichloropropylene	K, T, U	< 0.05	ppbv	0.05	AC-058	14-Mar-18
18030102-001	trans-2-Butene		0.02	ppbv	0.01	AC-058	14-Mar-18
18030102-001	trans-2-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18
18030102-001	Trichloroethylene	K, T, U	< 0.05	ppbv	0.05	AC-058	14-Mar-18
18030102-001	Vinyl acetate	K, T, U	< 0.5	ppbv	0.5	AC-058	14-Mar-18
18030102-001	Vinyl chloride	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Mar-18

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Revision History

Order ID	Ver	Date	Reason
18030102	01	23-Mar-18	Report created
18030102	02	09-Apr-18	The results for Methane was revised and the corrected values were issued.

Methods

Method	Description
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

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

18030102

Report unknowns. Send results to prampotech@prampairshed.ca and to Robert Fisher.



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TEST REPORT

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Sample Comments



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TEST REPORT

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Result Comments

Note: Results relate only to items tested