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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

RESULTS: Karla Reesor Peace River Area Monitoring Program Committee INVOICE: Office Manager	403 807 2995	CLIENT SAMPLE ID PRAMP_Reno-20190217	CANISTER ID 28914	Matrix Ambient Air	Priority Normal
	DESCRIPTION: Methane Trigger		DATE SAMPLED: 18-Feb-19 9:30	DATE RECEIVED: 21-Feb-19	REPORT NUMBER: 19020165
		REPORT CREATED: 12-Mar-19	VERSION: Version 01		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19020165-001	1-Butene	K, T, U	< 0.15 ppmv	0.15	NA-025	26-Feb-19
19020165-001	Acetylene	K, T, U	< 0.12 ppmv	0.12	NA-025	26-Feb-19
19020165-001	n-Butane	K, T, U	< 0.3 ppmv	0.3	NA-025	26-Feb-19
19020165-001	cis-2-Butene	K, T, U	< 0.06 ppmv	0.06	NA-025	26-Feb-19
19020165-001	Ethane		0.2 ppmv	0.2	NA-025	26-Feb-19
19020165-001	Ethylacetylene	K, T, U	< 0.09 ppmv	0.09	NA-025	26-Feb-19
19020165-001	Ethylene	K, T, U	< 0.11 ppmv	0.11	NA-025	26-Feb-19
19020165-001	Isobutane	K, T, U	< 0.2 ppmv	0.2	NA-025	26-Feb-19
19020165-001	Isobutylene	K, T, U	< 0.2 ppmv	0.2	NA-025	26-Feb-19
19020165-001	Methane		3.0 ppmv	0.2	NA-025	26-Feb-19
19020165-001	n-Propane	K, T, U	< 0.11 ppmv	0.11	NA-025	26-Feb-19
19020165-001	Propylene	K, T, U	< 0.2 ppmv	0.2	NA-025	26-Feb-19
19020165-001	Propyne	K, T, U	< 0.2 ppmv	0.2	NA-025	26-Feb-19
19020165-001	trans-2-Butene	K, T, U	< 0.14 ppmv	0.14	NA-025	26-Feb-19
19020165-001	2,5-Dimethylthiophene	K, T, U	< 0.5 ppbv	0.5	NA-024	21-Feb-19
19020165-001	2-Ethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Feb-19
19020165-001	2-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Feb-19
19020165-001	3-Methylthiophene	K, T, U	< 0.5 ppbv	0.5	NA-024	21-Feb-19

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: March 12, 2019

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_Reno-20190217	28914	Ambient Air	18-Feb-19 9:30
DESCRIPTION:	Methane Trigger		
REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19
			VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19020165-001	Butyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	21-Feb-19
19020165-001	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Feb-19
19020165-001	Carbonyl sulphide		2.6 ppbv	0.5	NA-024	21-Feb-19
19020165-001	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Feb-19
19020165-001	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Feb-19
19020165-001	Ethyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	21-Feb-19
19020165-001	Ethyl sulphide	K, T, U	< 0.5 ppbv	0.5	NA-024	21-Feb-19
19020165-001	Hydrogen sulphide		2.5 ppbv	0.2	NA-024	21-Feb-19
19020165-001	Isobutyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	21-Feb-19
19020165-001	Isopropyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	21-Feb-19
19020165-001	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Feb-19
19020165-001	Pentyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	21-Feb-19
19020165-001	Propyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	21-Feb-19
19020165-001	tert-Butyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	21-Feb-19
19020165-001	Thiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Feb-19
19020165-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	1,1-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	04-Mar-19
19020165-001	1,2,3-Trimethylbenzene	K, T, U	< 0.08 ppbv	0.08	AC-058	04-Mar-19
19020165-001	1,2,4-Trichlorobenzene	K, T, U	< 1.2 ppbv	1.2	AC-058	04-Mar-19
19020165-001	1,2,4-Trimethylbenzene	K, T, U	< 0.08 ppbv	0.08	AC-058	04-Mar-19
19020165-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	1,2-Dichlorobenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	04-Mar-19

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19020165-001	1,2-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	1,2-Dichloropropane	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	04-Mar-19
19020165-001	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	04-Mar-19
19020165-001	1,3-Dichlorobenzene	K, T, U	< 0.5	ppbv	0.5	AC-058	04-Mar-19
19020165-001	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	04-Mar-19
19020165-001	1,4-Dioxane	K, T, U	< 0.6	ppbv	0.6	AC-058	04-Mar-19
19020165-001	1-Butene/Isobutylene		0.79	ppbv	0.03	AC-058	04-Mar-19
19020165-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	04-Mar-19
19020165-001	1-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	2,2,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	2,2-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	2,3,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	2,3-Dimethylbutane	K, T, U	< 0.03	ppbv	0.03	AC-058	04-Mar-19
19020165-001	2,3-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	04-Mar-19
19020165-001	2,4-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	2-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	2-Methylhexane		0.03	ppbv	0.02	AC-058	04-Mar-19
19020165-001	2-Methylpentane		0.23	ppbv	0.02	AC-058	04-Mar-19
19020165-001	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	04-Mar-19
19020165-001	3-Methylhexane		0.05	ppbv	0.03	AC-058	04-Mar-19
19020165-001	3-Methylpentane		0.12	ppbv	0.02	AC-058	04-Mar-19
19020165-001	Acetone		3.3	ppbv	0.6	AC-058	04-Mar-19
19020165-001	Acrolein	K, T, U	< 0.5	ppbv	0.5	AC-058	04-Mar-19
19020165-001	Benzene		0.26	ppbv	0.02	AC-058	04-Mar-19

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19020165-001	Benzyl chloride	K, T, U	< 0.6 ppbv	0.6	AC-058	04-Mar-19
19020165-001	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Bromoform	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Bromomethane	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	Carbon disulfide	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	Carbon tetrachloride	I	0.03 ppbv	0.02	AC-058	04-Mar-19
19020165-001	Chlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Chloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Chloroform	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Chloromethane		0.50 ppbv	0.03	AC-058	04-Mar-19
19020165-001	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	cis-1,3-Dichloropropene	K, T, U	< 0.06 ppbv	0.06	AC-058	04-Mar-19
19020165-001	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	cis-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Cyclohexane		0.11 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Cyclopentane		0.04 ppbv	0.02	AC-058	04-Mar-19
19020165-001	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	Ethanol		2.2 ppbv	0.5	AC-058	04-Mar-19
19020165-001	Ethyl acetate	K, T, U	< 0.6 ppbv	0.6	AC-058	04-Mar-19
19020165-001	Ethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	Freon-11	I	0.22 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Freon-113	I	0.03 ppbv	0.02	AC-058	04-Mar-19
19020165-001	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Freon-12		0.46 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Hexachloro-1,3-butadiene	K, T, U	< 0.76 ppbv	0.76	AC-058	04-Mar-19

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REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19020165-001	Isobutane		2.30	ppbv	0.03	AC-058	04-Mar-19
19020165-001	Isopentane		0.94	ppbv	0.05	AC-058	04-Mar-19
19020165-001	Isoprene	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	Isopropyl alcohol	K, T, U	< 0.6	ppbv	0.6	AC-058	04-Mar-19
19020165-001	Isopropylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	m,p-Xylene	K, T, U	< 0.05	ppbv	0.05	AC-058	04-Mar-19
19020165-001	m-Diethylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	04-Mar-19
19020165-001	m-Ethyltoluene	K, T, U	< 0.12	ppbv	0.12	AC-058	04-Mar-19
19020165-001	Methyl butyl ketone	K, T, U	< 0.76	ppbv	0.76	AC-058	04-Mar-19
19020165-001	Methyl ethyl ketone	K, T, U	< 0.5	ppbv	0.5	AC-058	04-Mar-19
19020165-001	Methyl isobutyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	04-Mar-19
19020165-001	Methyl methacrylate	K, T, U	< 0.11	ppbv	0.11	AC-058	04-Mar-19
19020165-001	Methyl tert butyl ether	K, T, U	< 0.05	ppbv	0.05	AC-058	04-Mar-19
19020165-001	Methylcyclohexane		0.22	ppbv	0.02	AC-058	04-Mar-19
19020165-001	Methylcyclopentane		0.23	ppbv	0.03	AC-058	04-Mar-19
19020165-001	Methylene chloride	K, T, U	< 0.5	ppbv	0.5	AC-058	04-Mar-19
19020165-001	n-Butane		2.89	ppbv	0.05	AC-058	04-Mar-19
19020165-001	n-Decane	K, T, U	< 0.09	ppbv	0.09	AC-058	04-Mar-19
19020165-001	n-Dodecane	K, T, U	< 0.6	ppbv	0.6	AC-058	04-Mar-19
19020165-001	n-Heptane	K, T, U	< 0.02	ppbv	0.02	AC-058	04-Mar-19
19020165-001	n-Hexane		0.08	ppbv	0.02	AC-058	04-Mar-19
19020165-001	n-Octane	K, T, U	< 0.03	ppbv	0.03	AC-058	04-Mar-19
19020165-001	n-Pentane		0.6	ppbv	0.2	AC-058	04-Mar-19
19020165-001	n-Propylbenzene	K, T, U	< 0.08	ppbv	0.08	AC-058	04-Mar-19
19020165-001	n-Undecane	K, T, U	< 0.8	ppbv	0.8	AC-058	04-Mar-19

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-20190217	28914	Ambient Air	18-Feb-19	9:30
DESCRIPTION:	Methane Trigger			
REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19020165-001	Naphthalene	K, T, U	< 0.8 ppbv	0.8	AC-058	04-Mar-19
19020165-001	n-Nonane	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	o-Ethyltoluene	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	o-Xylene	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	p-Diethylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	04-Mar-19
19020165-001	p-Ethyltoluene	K, T, U	< 0.11 ppbv	0.11	AC-058	04-Mar-19
19020165-001	Styrene	K, T, U	< 0.06 ppbv	0.06	AC-058	04-Mar-19
19020165-001	Tetrachloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	04-Mar-19
19020165-001	Tetrahydrofuran	K, T, U	< 0.6 ppbv	0.6	AC-058	04-Mar-19
19020165-001	Toluene		0.32 ppbv	0.02	AC-058	04-Mar-19
19020165-001	trans-1,2-Dichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	trans-1,3-Dichloropropylene	K, T, U	< 0.06 ppbv	0.06	AC-058	04-Mar-19
19020165-001	trans-2-Butene	K, T, U	< 0.02 ppbv	0.02	AC-058	04-Mar-19
19020165-001	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19
19020165-001	Trichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	04-Mar-19
19020165-001	Vinyl acetate	K, T, U	< 0.6 ppbv	0.6	AC-058	04-Mar-19
19020165-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	04-Mar-19

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-Blank	28934	Ambient Air	18-Feb-19	9:30
DESCRIPTION:	Blank			
REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19020165-002	1-Butene	K, T, U	< 1.51	ppmv	1.51	NA-025	26-Feb-19
19020165-002	Acetylene	K, T, U	< 1.21	ppmv	1.21	NA-025	26-Feb-19
19020165-002	n-Butane	K, T, U	< 3.0	ppmv	3.0	NA-025	26-Feb-19
19020165-002	cis-2-Butene	K, T, U	< 0.60	ppmv	0.60	NA-025	26-Feb-19
19020165-002	Ethane	K, T, U	< 1.5	ppmv	1.5	NA-025	26-Feb-19
19020165-002	Ethylacetylene	K, T, U	< 0.91	ppmv	0.91	NA-025	26-Feb-19
19020165-002	Ethylene	K, T, U	< 1.06	ppmv	1.06	NA-025	26-Feb-19
19020165-002	Isobutane	K, T, U	< 1.5	ppmv	1.5	NA-025	26-Feb-19
19020165-002	Isobutylene	K, T, U	< 1.5	ppmv	1.5	NA-025	26-Feb-19
19020165-002	Methane		4.8	ppmv	1.5	NA-025	26-Feb-19
19020165-002	n-Propane	K, T, U	< 1.06	ppmv	1.06	NA-025	26-Feb-19
19020165-002	Propylene	K, T, U	< 1.5	ppmv	1.5	NA-025	26-Feb-19
19020165-002	Propyne	K, T, U	< 1.5	ppmv	1.5	NA-025	26-Feb-19
19020165-002	trans-2-Butene	K, T, U	< 1.36	ppmv	1.36	NA-025	26-Feb-19
19020165-002	2,5-Dimethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19
19020165-002	2-Ethylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	21-Feb-19
19020165-002	2-Methylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	21-Feb-19
19020165-002	3-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19
19020165-002	Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19
19020165-002	Carbon disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	21-Feb-19
19020165-002	Carbonyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19
19020165-002	Dimethyl disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	21-Feb-19
19020165-002	Dimethyl sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	21-Feb-19
19020165-002	Ethyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19
19020165-002	Ethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19

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PRAMP_Reno-Blank	28934	Ambient Air	18-Feb-19	9:30
DESCRIPTION:	Blank			
REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19020165-002	Hydrogen sulphide	K, T, U	< 0.1	ppbv	0.1	NA-024	21-Feb-19
19020165-002	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19
19020165-002	Isopropyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19
19020165-002	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	21-Feb-19
19020165-002	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	21-Feb-19
19020165-002	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	21-Feb-19
19020165-002	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	21-Feb-19
19020165-002	Thiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	21-Feb-19
19020165-002	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1,1-Dichloroethylene	K, T, U	< 0.04	ppbv	0.04	AC-058	05-Mar-19
19020165-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	05-Mar-19
19020165-002	1,2,4-Trichlorobenzene	K, T, U	< 0.8	ppbv	0.8	AC-058	05-Mar-19
19020165-002	1,2,4-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	05-Mar-19
19020165-002	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Mar-19
19020165-002	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	1,3,5-Trimethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1,3-Butadiene	I	0.12	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1,3-Dichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	05-Mar-19
19020165-002	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Mar-19
19020165-002	1,4-Dioxane	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Mar-19

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: March 12, 2019

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-Blank	28934	Ambient Air	18-Feb-19	9:30
DESCRIPTION:	Blank			
REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19020165-002	1-Butene/Isobutylene		0.44	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	1-Pentene	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	2,2-Dimethylbutane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	2,3-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	2-Methylhexane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	2-Methylpentane		0.07	ppbv	0.01	AC-058	05-Mar-19
19020165-002	3-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	3-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	3-Methylpentane		0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Acetone	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Mar-19
19020165-002	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	05-Mar-19
19020165-002	Benzene		0.29	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Mar-19
19020165-002	Bromodichloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Bromomethane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Carbon disulfide	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Carbon tetrachloride	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19

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DESCRIPTION:	Blank			
REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19020165-002	Chloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Chloroform	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Chloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	cis-1,2-Dichloroethene	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	cis-1,3-Dichloropropene	K, T, U	< 0.04	ppbv	0.04	AC-058	05-Mar-19
19020165-002	cis-2-Butene		0.03	ppbv	0.02	AC-058	05-Mar-19
19020165-002	cis-2-Pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Cyclohexane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Cyclopentane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Dibromochloromethane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Ethanol	K, T, U	< 0.3	ppbv	0.3	AC-058	05-Mar-19
19020165-002	Ethyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Mar-19
19020165-002	Ethylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Freon-11	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Freon-113	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Freon-114	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Freon-12	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Hexachloro-1,3-butadiene	K, T, U	< 0.50	ppbv	0.50	AC-058	05-Mar-19
19020165-002	Isobutane		0.68	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Isopentane		0.39	ppbv	0.03	AC-058	05-Mar-19
19020165-002	Isoprene	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Isopropyl alcohol	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Mar-19
19020165-002	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	m,p-Xylene	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Mar-19
19020165-002	m-Diethylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	05-Mar-19

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PRAMP_Reno-Blank	28934	Ambient Air	18-Feb-19	9:30
DESCRIPTION:	Blank			
REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
19020165-002	m-Ethyltoluene	K, T, U	< 0.08	ppbv	0.08	AC-058	05-Mar-19
19020165-002	Methyl butyl ketone	K, T, U	< 0.50	ppbv	0.50	AC-058	05-Mar-19
19020165-002	Methyl ethyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	05-Mar-19
19020165-002	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Mar-19
19020165-002	Methyl methacrylate	K, T, U	< 0.07	ppbv	0.07	AC-058	05-Mar-19
19020165-002	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Mar-19
19020165-002	Methylcyclohexane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	Methylcyclopentane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Mar-19
19020165-002	Methylene chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	05-Mar-19
19020165-002	n-Butane		0.68	ppbv	0.03	AC-058	05-Mar-19
19020165-002	n-Decane	K, T, U	< 0.06	ppbv	0.06	AC-058	05-Mar-19
19020165-002	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Mar-19
19020165-002	n-Heptane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	n-Hexane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	n-Octane		0.04	ppbv	0.02	AC-058	05-Mar-19
19020165-002	n-Pentane		0.3	ppbv	0.1	AC-058	05-Mar-19
19020165-002	n-Propylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	05-Mar-19
19020165-002	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	05-Mar-19
19020165-002	Naphthalene	K, T, U	< 0.5	ppbv	0.5	AC-058	05-Mar-19
19020165-002	n-Nonane	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	o-Ethyltoluene	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	o-Xylene	K, T, U	< 0.01	ppbv	0.01	AC-058	05-Mar-19
19020165-002	p-Diethylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	05-Mar-19
19020165-002	p-Ethyltoluene	K, T, U	< 0.07	ppbv	0.07	AC-058	05-Mar-19
19020165-002	Styrene	K, T, U	< 0.04	ppbv	0.04	AC-058	05-Mar-19

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_Reno-Blank	28934	Ambient Air	18-Feb-19	9:30
DESCRIPTION:	Blank			
REPORT NUMBER:	19020165	REPORT CREATED:	12-Mar-19	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19020165-002	Tetrachloroethylene	I	0.10 ppbv	0.04	AC-058	05-Mar-19
19020165-002	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	05-Mar-19
19020165-002	Toluene		0.50 ppbv	0.01	AC-058	05-Mar-19
19020165-002	trans-1,2-Dichloroethylene	K, T, U	< 0.01 ppbv	0.01	AC-058	05-Mar-19
19020165-002	trans-1,3-Dichloropropylene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Mar-19
19020165-002	trans-2-Butene		0.05 ppbv	0.01	AC-058	05-Mar-19
19020165-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Mar-19
19020165-002	Trichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Mar-19
19020165-002	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	05-Mar-19
19020165-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Mar-19

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Date: March 12, 2019

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Revision History

Order ID	Ver	Date	Reason
19020165	01	12-Mar-19	Report created

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

19020165

Send results to prampotech@prampairshed.ca. Unknowns to be reported. Return sample to reception for isotope analysis.



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ENVIRONMENTAL ANALYTICAL SERVICES

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