



PO Bag 4000
 Vegreville, Alberta
 Canada T9C 1T4
 (780) 632-8211

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-20190317	CANISTER ID 29002	Matrix Ambient Air	Priority Normal
	DESCRIPTION: Non-Triggered Canister				
		DATE SAMPLED: 18-Mar-19	DATE RECEIVED: 20-Mar-19		
		REPORT CREATED: 02-Apr-19	REPORT NUMBER: 19030174		
				VERSION: Version 01	

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19030174-001	1-Butene	K, T, U	< 1.48 ppmv	1.48	NA-025	21-Mar-19
19030174-001	Acetylene	K, T, U	< 1.18 ppmv	1.18	NA-025	21-Mar-19
19030174-001	n-Butane	K, T, U	< 3.0 ppmv	3.0	NA-025	21-Mar-19
19030174-001	cis-2-Butene	K, T, U	< 0.59 ppmv	0.59	NA-025	21-Mar-19
19030174-001	Ethane	K, T, U	< 1.5 ppmv	1.5	NA-025	21-Mar-19
19030174-001	Ethylacetylene	K, T, U	< 0.89 ppmv	0.89	NA-025	21-Mar-19
19030174-001	Ethylene	K, T, U	< 1.04 ppmv	1.04	NA-025	21-Mar-19
19030174-001	Isobutane	K, T, U	< 1.5 ppmv	1.5	NA-025	21-Mar-19
19030174-001	Isobutylene	K, T, U	< 1.5 ppmv	1.5	NA-025	21-Mar-19
19030174-001	Methane	K, T, U	< 1.5 ppmv	1.5	NA-025	21-Mar-19
19030174-001	n-Propane	K, T, U	< 1.04 ppmv	1.04	NA-025	21-Mar-19
19030174-001	Propylene	K, T, U	< 1.5 ppmv	1.5	NA-025	21-Mar-19
19030174-001	Propyne	K, T, U	< 1.5 ppmv	1.5	NA-025	21-Mar-19
19030174-001	trans-2-Butene	K, T, U	< 1.33 ppmv	1.33	NA-025	21-Mar-19
19030174-001	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19
19030174-001	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	21-Mar-19
19030174-001	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	21-Mar-19
19030174-001	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: April 2, 2019

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-RENO-20190317	29002	Ambient Air	18-Mar-19
DESCRIPTION:	Non-Triggered Canister		
REPORT NUMBER:	19030174	REPORT CREATED:	02-Apr-19
			VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
19030174-001	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19
19030174-001	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	21-Mar-19
19030174-001	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19
19030174-001	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	21-Mar-19
19030174-001	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	21-Mar-19
19030174-001	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19
19030174-001	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19
19030174-001	Hydrogen sulphide	K, T, U	< 0.1 ppbv	0.1	NA-024	21-Mar-19
19030174-001	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19
19030174-001	Isopropyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19
19030174-001	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	21-Mar-19
19030174-001	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	21-Mar-19
19030174-001	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	21-Mar-19
19030174-001	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	21-Mar-19
19030174-001	Thiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	21-Mar-19
19030174-001	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	1,1-Dichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Mar-19
19030174-001	1,2,3-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	22-Mar-19
19030174-001	1,2,4-Trichlorobenzene	K, T, U	< 0.8 ppbv	0.8	AC-058	22-Mar-19
19030174-001	1,2,4-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	22-Mar-19
19030174-001	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	22-Mar-19

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

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19030174-001	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	1,3,5-Trimethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	1,3-Butadiene	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	1,3-Dichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	22-Mar-19
19030174-001	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	22-Mar-19
19030174-001	1,4-Dioxane	K, T, U	< 0.4	ppbv	0.4	AC-058	22-Mar-19
19030174-001	1-Butene/Isobutylene	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	1-Pentene	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	2,2-Dimethylbutane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	2,3-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	2-Methylhexane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	2-Methylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	3-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	3-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	3-Methylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	Acetone	K, T, U	< 0.4	ppbv	0.4	AC-058	22-Mar-19
19030174-001	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	22-Mar-19
19030174-001	Benzene	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19

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19030174-001	Benzyl chloride	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Mar-19
19030174-001	Bromodichloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Bromomethane	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	Carbon disulfide	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	Carbon tetrachloride	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Chloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	cis-1,2-Dichloroethene	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	cis-1,3-Dichloropropene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Mar-19
19030174-001	cis-2-Butene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Cyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Cyclopentane		1.87 ppbv	0.01	AC-058	22-Mar-19
19030174-001	Dibromochloromethane	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	Ethanol	K, T, U	< 0.3 ppbv	0.3	AC-058	22-Mar-19
19030174-001	Ethyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Mar-19
19030174-001	Ethylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Freon-113	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	Freon-114	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Freon-12	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Hexachloro-1,3-butadiene	K, T, U	< 0.50 ppbv	0.50	AC-058	22-Mar-19

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19030174-001	Isobutane	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	Isopentane		0.08	ppbv	0.03	AC-058	22-Mar-19
19030174-001	Isoprene	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	Isopropyl alcohol	K, T, U	< 0.4	ppbv	0.4	AC-058	22-Mar-19
19030174-001	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	m,p-Xylene	K, T, U	< 0.03	ppbv	0.03	AC-058	22-Mar-19
19030174-001	m-Diethylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	22-Mar-19
19030174-001	m-Ethyltoluene	K, T, U	< 0.08	ppbv	0.08	AC-058	22-Mar-19
19030174-001	Methyl butyl ketone	K, T, U	< 0.50	ppbv	0.50	AC-058	22-Mar-19
19030174-001	Methyl ethyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	22-Mar-19
19030174-001	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	22-Mar-19
19030174-001	Methyl methacrylate	K, T, U	< 0.07	ppbv	0.07	AC-058	22-Mar-19
19030174-001	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	22-Mar-19
19030174-001	Methylcyclohexane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	Methylcyclopentane	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	Methylene chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	22-Mar-19
19030174-001	n-Butane	K, T, U	< 0.03	ppbv	0.03	AC-058	22-Mar-19
19030174-001	n-Decane	K, T, U	< 0.06	ppbv	0.06	AC-058	22-Mar-19
19030174-001	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	22-Mar-19
19030174-001	n-Heptane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	n-Hexane	K, T, U	< 0.01	ppbv	0.01	AC-058	22-Mar-19
19030174-001	n-Octane	K, T, U	< 0.02	ppbv	0.02	AC-058	22-Mar-19
19030174-001	n-Pentane	K, T, U	< 0.1	ppbv	0.1	AC-058	22-Mar-19
19030174-001	n-Propylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	22-Mar-19
19030174-001	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	22-Mar-19

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

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19030174-001	Naphthalene	K, T, U	< 0.5 ppbv	0.5	AC-058	22-Mar-19
19030174-001	n-Nonane		0.04 ppbv	0.01	AC-058	22-Mar-19
19030174-001	o-Ethyltoluene	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	o-Xylene	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	p-Diethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Mar-19
19030174-001	p-Ethyltoluene	K, T, U	< 0.07 ppbv	0.07	AC-058	22-Mar-19
19030174-001	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Mar-19
19030174-001	Tetrachloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Mar-19
19030174-001	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Mar-19
19030174-001	Toluene	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	trans-1,2-Dichloroethylene	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	trans-1,3-Dichloropropylene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Mar-19
19030174-001	trans-2-Butene	K, T, U	< 0.01 ppbv	0.01	AC-058	22-Mar-19
19030174-001	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19
19030174-001	Trichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	22-Mar-19
19030174-001	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	22-Mar-19
19030174-001	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	22-Mar-19



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Revision History

Order ID	Ver	Date	Reason
19030174	01	02-Apr-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

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Order Comments

19030174

Send results to Pramptech. Unknowns to be reported.



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Sample Comments



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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.*