

<p>RESULTS: Karla Reesor 403 807 2995 Peace River Area Monitoring Program Committee</p> <p>INVOICE: Office Manager</p>	<p style="text-align: center;">CLIENT SAMPLE ID PRAMP-842b-230508</p> <p>Matrix Ambient Air</p> <p>CANISTER ID: 28950</p> <p>PRIORITY: Normal</p> <p>DESCRIPTION: NMHC Trigger</p> <p>DATE SAMPLED: 08-May-23 6:40 DATE RECEIVED: 15-May-23</p> <p>REPORT CREATED: 12-Jun-23 REPORT NUMBER: 23050211</p> <p style="text-align: right;">VERSION: Version 01</p>
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Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-001	1-Butene	K, T, U	< 0.15 ppmv	0.15	NA-025	15-May-23
23050211-001	Acetylene	K, T, U	< 0.12 ppmv	0.12	NA-025	15-May-23
23050211-001	n-Butane	K, T, U	< 0.3 ppmv	0.3	NA-025	15-May-23
23050211-001	cis-2-Butene	K, T, U	< 0.06 ppmv	0.06	NA-025	15-May-23
23050211-001	Ethane	I	0.5 ppmv	0.1	NA-025	15-May-23
23050211-001	Ethylacetylene	K, T, U	< 0.09 ppmv	0.09	NA-025	15-May-23
23050211-001	Ethylene	K, T, U	< 0.10 ppmv	0.10	NA-025	15-May-23
23050211-001	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-001	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-001	Methane		2.6 ppmv	0.1	NA-025	15-May-23
23050211-001	n-Propane	K, T, U	< 0.10 ppmv	0.10	NA-025	15-May-23
23050211-001	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-001	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-001	trans-2-Butene	K, T, U	< 0.13 ppmv	0.13	NA-025	15-May-23
23050211-001	2,5-Dimethylthiophene	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-001	2-Ethylthiophene	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-001	2-Methylthiophene	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40
DESCRIPTION:	NMHC Trigger		
REPORT NUMBER:	REPORT CREATED:		VERSION: Version 01
23050211	12-Jun-23		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-001	3-Methylthiophene	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-001	Butyl mercaptan	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-001	Carbon disulphide	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-001	Carbonyl sulphide	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-001	Dimethyl disulphide	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-001	Dimethyl sulphide	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-001	Ethyl mercaptan	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-001	Ethyl sulphide	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-001	Hydrogen sulphide	K, T, U, Q	< 0.1 ppbv	0.1	NA-024	15-May-23
23050211-001	Isobutyl mercaptan	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-001	Isopropyl mercaptan	K, T, U, Q	< 0.1 ppbv	0.1	NA-024	15-May-23
23050211-001	Methyl mercaptan	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-001	Pentyl mercaptan	K, T, U, Q	< 0.6 ppbv	0.6	NA-024	15-May-23
23050211-001	Propyl mercaptan	K, T, U, Q	< 0.6 ppbv	0.6	NA-024	15-May-23
23050211-001	tert-Butyl mercaptan	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-001	Thiophene/sec-Butyl mercaptan	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	1,1-Dichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	1,2,3-Trimethylbenzene		0.53 ppbv	0.07	AC-058	18-May-23
23050211-001	1,2,4-Trichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-001	1,2,4-Trimethylbenzene		0.33 ppbv	0.04	AC-058	18-May-23
23050211-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23

Report certified by: Andrea Conner, Admin Assistant

Date: June 12, 2023

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at <https://directory.cala.ca/>

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40
DESCRIPTION:	NMHC Trigger		
REPORT NUMBER:	REPORT CREATED:	VERSION:	Version 01
23050211	12-Jun-23		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-001	1,2-Dichlorobenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-May-23
23050211-001	1,2-Dichloroethane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-May-23
23050211-001	1,2-Dichloropropane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-May-23
23050211-001	1,3,5-Trimethylbenzene	I	0.16 ppbv	0.04	AC-058	18-May-23
23050211-001	1,3-Butadiene		0.57 ppbv	0.04	AC-058	18-May-23
23050211-001	1,3-Dichlorobenzene	K, T, U	< 0.6 ppbv	0.6	AC-058	18-May-23
23050211-001	1,4-Dichlorobenzene	K, T, U	< 0.6 ppbv	0.6	AC-058	18-May-23
23050211-001	1,4-Dioxane	K, T, U	< 0.7 ppbv	0.7	AC-058	18-May-23
23050211-001	1-Butene/Isobutylene		3.82 ppbv	0.09	AC-058	18-May-23
23050211-001	1-Hexene/2-Methyl-1-pentene		0.40 ppbv	0.10	AC-058	18-May-23
23050211-001	1-Pentene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-May-23
23050211-001	2,2,4-Trimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	2,2-Dimethylbutane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	2,3,4-Trimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	2,3-Dimethylbutane	K, T, U	< 0.13 ppbv	0.13	AC-058	18-May-23
23050211-001	2,3-Dimethylpentane	I	0.06 ppbv	0.03	AC-058	18-May-23
23050211-001	2,4-Dimethylpentane	K, T, U	< 0.04 ppbv	0.04	AC-058	18-May-23
23050211-001	2-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	2-Methylhexane	I	0.07 ppbv	0.04	AC-058	18-May-23
23050211-001	2-Methylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	3-Methylheptane	I	0.05 ppbv	0.04	AC-058	18-May-23
23050211-001	3-Methylhexane	I	0.07 ppbv	0.03	AC-058	18-May-23
23050211-001	3-Methylpentane	I	0.12 ppbv	0.03	AC-058	18-May-23
23050211-001	Acetone		14.6 ppbv	0.6	AC-058	18-May-23
23050211-001	Acrolein		1.0 ppbv	0.4	AC-058	18-May-23

CLIENT SAMPLE ID	PRAMP-842b-230508	CANISTER ID	28950	Matrix	Ambient Air	DATE SAMPLED	08-May-23 6:40
DESCRIPTION:	NMHC Trigger						
REPORT NUMBER:	23050211	REPORT CREATED:	12-Jun-23			VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
23050211-001	Benzene		6.87	ppbv	0.04	AC-058	18-May-23
23050211-001	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	Bromodichloromethane	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	Bromoform	I	0.04	ppbv	0.03	AC-058	18-May-23
23050211-001	Bromomethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Carbon disulfide	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Carbon tetrachloride	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Chloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Chloroform	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Chloromethane		0.80	ppbv	0.06	AC-058	18-May-23
23050211-001	cis-1,2-Dichloroethene	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	cis-1,3-Dichloropropene	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	cis-2-Butene		0.40	ppbv	0.04	AC-058	18-May-23
23050211-001	cis-2-Pentene		0.20	ppbv	0.03	AC-058	18-May-23
23050211-001	Cyclohexane	I	0.12	ppbv	0.06	AC-058	18-May-23
23050211-001	Cyclopentane		0.24	ppbv	0.03	AC-058	18-May-23
23050211-001	Dibromochloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Ethanol		2.1	ppbv	0.7	AC-058	18-May-23
23050211-001	Ethyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	18-May-23
23050211-001	Ethylbenzene		0.43	ppbv	0.04	AC-058	18-May-23
23050211-001	Freon-11		0.16	ppbv	0.03	AC-058	18-May-23
23050211-001	Freon-113	K, T, U	< 0.03	ppbv	0.03	AC-058	18-May-23
23050211-001	Freon-114	K, T, U	< 0.04	ppbv	0.04	AC-058	18-May-23
23050211-001	Freon-12		0.49	ppbv	0.04	AC-058	18-May-23

Report certified by: Andrea Conner, Admin Assistant

Date: June 12, 2023

On behalf of: Adam Malcolm, Manager, Chemical Testing

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40
DESCRIPTION:	NMHC Trigger		
REPORT NUMBER:	REPORT CREATED:	VERSION:	Version 01
23050211	12-Jun-23		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-001	Hexachloro-1,3-butadiene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-001	Isobutane		3.69 ppbv	0.04	AC-058	18-May-23
23050211-001	Isopentane		0.59 ppbv	0.06	AC-058	18-May-23
23050211-001	Isoprene		0.40 ppbv	0.03	AC-058	18-May-23
23050211-001	Isopropyl alcohol	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-001	Isopropylbenzene	I	0.08 ppbv	0.06	AC-058	18-May-23
23050211-001	m,p-Xylene		0.67 ppbv	0.06	AC-058	18-May-23
23050211-001	m-Diethylbenzene		1.29 ppbv	0.03	AC-058	18-May-23
23050211-001	m-Ethyltoluene		0.33 ppbv	0.04	AC-058	18-May-23
23050211-001	Methyl butyl ketone	K, T, U	< 0.6 ppbv	0.6	AC-058	18-May-23
23050211-001	Methyl ethyl ketone		1.5 ppbv	0.4	AC-058	18-May-23
23050211-001	Methyl isobutyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-001	Methyl methacrylate	K, T, U	< 0.12 ppbv	0.12	AC-058	18-May-23
23050211-001	Methyl tert butyl ether	K, T, U	< 0.04 ppbv	0.04	AC-058	18-May-23
23050211-001	Methylcyclohexane	I	0.13 ppbv	0.03	AC-058	18-May-23
23050211-001	Methylcyclopentane	I	0.14 ppbv	0.07	AC-058	18-May-23
23050211-001	Methylene chloride	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-001	n-Butane		2.43 ppbv	0.03	AC-058	18-May-23
23050211-001	n-Decane		0.23 ppbv	0.09	AC-058	18-May-23
23050211-001	n-Dodecane	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-001	n-Heptane		0.36 ppbv	0.06	AC-058	18-May-23
23050211-001	n-Hexane		0.53 ppbv	0.04	AC-058	18-May-23
23050211-001	n-Octane		0.33 ppbv	0.03	AC-058	18-May-23
23050211-001	n-Pentane		1.04 ppbv	0.06	AC-058	18-May-23
23050211-001	n-Propylbenzene		0.20 ppbv	0.09	AC-058	18-May-23

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Date: June 12, 2023

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b-230508	28950	Ambient Air	08-May-23 6:40
DESCRIPTION:	NMHC Trigger		
REPORT NUMBER:	REPORT CREATED:		VERSION: Version 01
23050211	12-Jun-23		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-001	n-Undecane	K, T, U	< 0.7 ppbv	0.7	AC-058	18-May-23
23050211-001	Naphthalene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-001	n-Nonane		0.25 ppbv	0.06	AC-058	18-May-23
23050211-001	o-Ethyltoluene		0.26 ppbv	0.03	AC-058	18-May-23
23050211-001	o-Xylene		0.36 ppbv	0.04	AC-058	18-May-23
23050211-001	p-Diethylbenzene		0.18 ppbv	0.03	AC-058	18-May-23
23050211-001	p-Ethyltoluene	K, T, U	< 0.06 ppbv	0.06	AC-058	18-May-23
23050211-001	Styrene		0.38 ppbv	0.06	AC-058	18-May-23
23050211-001	Tetrachloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-001	Toluene		3.29 ppbv	0.04	AC-058	18-May-23
23050211-001	trans-1,2-Dichloroethylene		0.57 ppbv	0.09	AC-058	18-May-23
23050211-001	trans-1,3-Dichloropropylene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	trans-2-Butene		0.49 ppbv	0.04	AC-058	18-May-23
23050211-001	trans-2-Pentene		0.15 ppbv	0.03	AC-058	18-May-23
23050211-001	Trichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-001	Vinyl acetate		270 ppbv	4.4	AC-058	18-May-23
23050211-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	23050211	REPORT CREATED:	12-Jun-23
			VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	15-May-23
23050211-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	15-May-23
23050211-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	15-May-23
23050211-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	15-May-23
23050211-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	15-May-23
23050211-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	15-May-23
23050211-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	15-May-23
23050211-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	15-May-23
23050211-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	15-May-23
23050211-002	2,5-Dimethylthiophene	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-002	2-Ethylthiophene	K, T, U, Q	< 0.2 ppbv	0.2	NA-024	15-May-23
23050211-002	2-Methylthiophene	K, T, U, Q	< 0.2 ppbv	0.2	NA-024	15-May-23
23050211-002	3-Methylthiophene	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-002	Butyl mercaptan	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-002	Carbon disulphide	K, T, U, Q	< 0.2 ppbv	0.2	NA-024	15-May-23
23050211-002	Carbonyl sulphide	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-002	Dimethyl disulphide	K, T, U, Q	< 0.2 ppbv	0.2	NA-024	15-May-23
23050211-002	Dimethyl sulphide	K, T, U, Q	< 0.2 ppbv	0.2	NA-024	15-May-23
23050211-002	Ethyl mercaptan	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-002	Ethyl sulphide	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23

Report certified by: Andrea Conner, Admin Assistant

Date: June 12, 2023

On behalf of: Adam Malcolm, Manager, Chemical Testing

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	23050211	REPORT CREATED:	12-Jun-23
			VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-002	Hydrogen sulphide	K, T, U, Q	< 0.1 ppbv	0.1	NA-024	15-May-23
23050211-002	Isobutyl mercaptan	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-002	Isopropyl mercaptan	K, T, U, Q	< 0.1 ppbv	0.1	NA-024	15-May-23
23050211-002	Methyl mercaptan	K, T, U, Q	< 0.2 ppbv	0.2	NA-024	15-May-23
23050211-002	Pentyl mercaptan	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-002	Propyl mercaptan	K, T, U, Q	< 0.4 ppbv	0.4	NA-024	15-May-23
23050211-002	tert-Butyl mercaptan	K, T, U, Q	< 0.3 ppbv	0.3	NA-024	15-May-23
23050211-002	Thiophene/sec-Butyl mercaptan	K, T, U, Q	< 0.2 ppbv	0.2	NA-024	15-May-23
23050211-002	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	1,1,2-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	1,1-Dichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	1,2,3-Trimethylbenzene		0.13 ppbv	0.05	AC-058	18-May-23
23050211-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	1,2,4-Trimethylbenzene	I	0.10 ppbv	0.03	AC-058	18-May-23
23050211-002	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	1,2-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	1,2-Dichloropropane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	1,3,5-Trimethylbenzene	I	0.07 ppbv	0.03	AC-058	18-May-23
23050211-002	1,3-Butadiene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	1,3-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-002	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-002	1,4-Dioxane	K, T, U	< 0.5 ppbv	0.5	AC-058	18-May-23

Report certified by: Andrea Conner, Admin Assistant

Date: June 12, 2023

On behalf of: Adam Malcolm, Manager, Chemical Testing

Inquiries: (780) 632 8403

E-mail: EAS.Results@innotechalberta.ca

InnoTech's ISO/IEC 17025:2017 scope of accreditation can be located at <https://directory.cala.ca/>

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP-842b--Blank	32219	Ambient Air	08-May-23
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	VERSION:	Version 01
23050211	12-Jun-23		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-002	1-Butene/Isobutylene		0.51 ppbv	0.06	AC-058	18-May-23
23050211-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07 ppbv	0.07	AC-058	18-May-23
23050211-002	1-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	2,2,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	2,2-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	2,3,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	2,3-Dimethylbutane	K, T, U	< 0.09 ppbv	0.09	AC-058	18-May-23
23050211-002	2,3-Dimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	2,4-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	2-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	2-Methylhexane	I	0.04 ppbv	0.03	AC-058	18-May-23
23050211-002	2-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	3-Methylhexane	I	0.04 ppbv	0.02	AC-058	18-May-23
23050211-002	3-Methylpentane	I	0.03 ppbv	0.02	AC-058	18-May-23
23050211-002	Acetone		1.7 ppbv	0.4	AC-058	18-May-23
23050211-002	Acrolein	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	Benzene	I	0.05 ppbv	0.03	AC-058	18-May-23
23050211-002	Benzyl chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	Bromoform	I	0.03 ppbv	0.02	AC-058	18-May-23
23050211-002	Bromomethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Carbon disulfide	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Carbon tetrachloride	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23

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PRAMP-842b--Blank	32219	Ambient Air	08-May-23
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	VERSION:	Version 01
23050211	12-Jun-23		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-002	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Chloromethane		0.18 ppbv	0.04	AC-058	18-May-23
23050211-002	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Cyclohexane	I	0.06 ppbv	0.04	AC-058	18-May-23
23050211-002	Cyclopentane	I	0.05 ppbv	0.02	AC-058	18-May-23
23050211-002	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Ethanol		1.1 ppbv	0.5	AC-058	18-May-23
23050211-002	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	Ethylbenzene	I	0.08 ppbv	0.03	AC-058	18-May-23
23050211-002	Freon-11	I	0.04 ppbv	0.02	AC-058	18-May-23
23050211-002	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	Freon-12	I	0.07 ppbv	0.03	AC-058	18-May-23
23050211-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	Isobutane		0.43 ppbv	0.03	AC-058	18-May-23
23050211-002	Isopentane	I	0.09 ppbv	0.04	AC-058	18-May-23
23050211-002	Isoprene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Isopropyl alcohol		0.5 ppbv	0.3	AC-058	18-May-23
23050211-002	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-May-23
23050211-002	m,p-Xylene	I	0.07 ppbv	0.04	AC-058	18-May-23
23050211-002	m-Diethylbenzene		0.13 ppbv	0.02	AC-058	18-May-23

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DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	REPORT CREATED:	VERSION:	Version 01
23050211	12-Jun-23		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-002	m-Ethyltoluene	I	0.07 ppbv	0.03	AC-058	18-May-23
23050211-002	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	18-May-23
23050211-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	18-May-23
23050211-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	Methylcyclohexane	I	0.03 ppbv	0.02	AC-058	18-May-23
23050211-002	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	18-May-23
23050211-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	n-Butane		0.16 ppbv	0.02	AC-058	18-May-23
23050211-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	18-May-23
23050211-002	n-Dodecane	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	n-Heptane	I	0.07 ppbv	0.04	AC-058	18-May-23
23050211-002	n-Hexane	I	0.04 ppbv	0.03	AC-058	18-May-23
23050211-002	n-Octane	I	0.08 ppbv	0.02	AC-058	18-May-23
23050211-002	n-Pentane	I	0.09 ppbv	0.04	AC-058	18-May-23
23050211-002	n-Propylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	18-May-23
23050211-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	18-May-23
23050211-002	Naphthalene	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	n-Nonane	I	0.05 ppbv	0.04	AC-058	18-May-23
23050211-002	o-Ethyltoluene	I	0.07 ppbv	0.02	AC-058	18-May-23
23050211-002	o-Xylene	I	0.06 ppbv	0.03	AC-058	18-May-23
23050211-002	p-Diethylbenzene	I	0.06 ppbv	0.02	AC-058	18-May-23
23050211-002	p-Ethyltoluene	K, T, U	< 0.04 ppbv	0.04	AC-058	18-May-23
23050211-002	Styrene	I	0.09 ppbv	0.04	AC-058	18-May-23

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PRAMP-842b--Blank	32219	Ambient Air	08-May-23
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	23050211	REPORT CREATED:	12-Jun-23
			VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
23050211-002	Tetrachloroethylene	I	0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	18-May-23
23050211-002	Toluene	I	0.07 ppbv	0.03	AC-058	18-May-23
23050211-002	trans-1,2-Dichloroethylene		2.33 ppbv	0.06	AC-058	18-May-23
23050211-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	18-May-23
23050211-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23
23050211-002	Vinyl acetate		10.8 ppbv	0.3	AC-058	18-May-23
23050211-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	18-May-23



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Revision History

Order ID	Ver	Date	Reason
23050211	01	12-Jun-23	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

List of Analytical Method IDs within InnoTech's ISO/IEC 17025:2017 CALA Scope of Accreditation

Method ID	Description
AC-013	Mercury in Waters by Cold Vapor Atomic Fluorescence Detection (CVAFS)
AC-020	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-021	Elemental Analysis Methodology of Filter-collected Airborne Particulate Matter (PM) by ICP-MS
AC-026	Ion Chromatographic Procedures using the Dionex ICS 3000 and 5000 Systems
AC-029	Procedure for the Equilibration and Weighing of Membrane Filters and PUFs on the Mettler Toledo Micro Balance
AC-035	Analysis of Glyphosate, Aminomethylphosphonic Acid and Glufosinate in Water
AC-038	Trace Metal Analysis of Water Samples by ICP-MS
AC-048	Specific Conductance (Conductivity Meter Method)
AC-049	pH (Meter Method)
AC-054	Alkalinity Total and Phenolphthalein
AC-058	Determination of Volatile Organic Compounds in Ambient Air by Gas Chromatography Mass Spectrometry
AC-060	Trace Metal Analysis of Soil Sediment and Industrial Waste Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-061	Trace Metal Analysis for Biological Samples by Inductively Coupled Plasma Mass Spectrometry (ICP-MS)
AC-065	Analysis of Naphthenic Acids in Water by HPLC-Orbitrap-MS analysis
AC-074	Pesticides in Water
AC-079	Alkylated PAH in Soil and Sediment
AC-080	Alkylated PAH in Water (SPE Extraction)
NA-006	Determination of BTEX, F1 Hydrocarbons and F2, F3 and F4 Hydrocarbons in Water
NA-024	Analysis of Reduced Sulfur Compounds in Air

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

Page 16 of 18

Order Comments

23050211

Send results to pramptech@prampairshed.ca



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

Page 17 of 18

Sample Comments

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.*

23050211-001 VOC FULL

Suspected vinyl acetate contamination issue from the gauge used to measure sample canister pressure.

23050211-002 VOC FULL

Suspected vinyl acetate contamination issue from the gauge used to measure sample canister pressure.