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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

<p>RESULTS: Office Manager Peace River Area Monitoring Program Committee</p>	<p style="text-align: center;">CLIENT SAMPLE ID PRAMP_986-2021/01/09</p> <p>Matrix Ambient Air</p> <p>CANISTER ID: 28886</p> <p>PRIORITY: Normal</p> <p>DESCRIPTION: NMHC Trigger</p>
<p>INVOICE: Karla Reesor 403 807 2995</p>	<p>DATE SAMPLED: 08-Jan-21 11:35 DATE RECEIVED: 12-Jan-21</p> <p>REPORT CREATED: 15-Jan-21 REPORT NUMBER: 21010044</p> <p style="text-align: right;">VERSION: Version 01</p>

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21010044-001	1-Butene	K, T, U	< 0.14	ppmv	0.14	NA-025	13-Jan-21
21010044-001	Acetylene	K, T, U	< 0.11	ppmv	0.11	NA-025	13-Jan-21
21010044-001	n-Butane	K, T, U	< 0.3	ppmv	0.3	NA-025	13-Jan-21
21010044-001	cis-2-Butene	K, T, U	< 0.06	ppmv	0.06	NA-025	13-Jan-21
21010044-001	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-001	Ethylacetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	13-Jan-21
21010044-001	Ethylene	K, T, U	< 0.10	ppmv	0.10	NA-025	13-Jan-21
21010044-001	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-001	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-001	Methane		2.0	ppmv	0.1	NA-025	13-Jan-21
21010044-001	n-Propane	K, T, U	< 0.10	ppmv	0.10	NA-025	13-Jan-21
21010044-001	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-001	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-001	trans-2-Butene	K, T, U	< 0.12	ppmv	0.12	NA-025	13-Jan-21
21010044-001	2,5-Dimethylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Jan-21
21010044-001	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-001	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-001	3-Methylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Jan-21

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_986-2021/01/09	28886	Ambient Air	08-Jan-21 11:35
DESCRIPTION:	NMHC Trigger		
REPORT NUMBER:	REPORT CREATED:	VERSION:	Version 01
21010044	15-Jan-21		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21010044-001	Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	12-Jan-21
21010044-001	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	12-Jan-21
21010044-001	Carbonyl sulphide		1.2 ppbv	0.4	NA-024	12-Jan-21
21010044-001	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	12-Jan-21
21010044-001	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	12-Jan-21
21010044-001	Ethyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	12-Jan-21
21010044-001	Ethyl sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	12-Jan-21
21010044-001	Hydrogen sulphide		1.5 ppbv	0.4	NA-024	12-Jan-21
21010044-001	Isobutyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	12-Jan-21
21010044-001	Isopropyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	12-Jan-21
21010044-001	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	12-Jan-21
21010044-001	Pentyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	12-Jan-21
21010044-001	Propyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	12-Jan-21
21010044-001	tert-Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	12-Jan-21
21010044-001	Thiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	12-Jan-21
21010044-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	1,1-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	14-Jan-21
21010044-001	1,2,3-Trimethylbenzene	K, T, U	< 0.07 ppbv	0.07	AC-058	14-Jan-21
21010044-001	1,2,4-Trichlorobenzene	K, T, U	< 1.1 ppbv	1.1	AC-058	14-Jan-21
21010044-001	1,2,4-Trimethylbenzene	K, T, U	< 0.07 ppbv	0.07	AC-058	14-Jan-21
21010044-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	1,2-Dichlorobenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	14-Jan-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: January 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-2021/01/09	28886	Ambient Air	08-Jan-21	11:35
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	21010044	REPORT CREATED:	15-Jan-21	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21010044-001	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Jan-21
21010044-001	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Jan-21
21010044-001	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	14-Jan-21
21010044-001	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	14-Jan-21
21010044-001	1,4-Dioxane	K, T, U	< 0.6	ppbv	0.6	AC-058	14-Jan-21
21010044-001	1-Butene/Isobutylene		1.74	ppbv	0.03	AC-058	14-Jan-21
21010044-001	1-Hexene/2-Methyl-1-pentene	I	0.26	ppbv	0.03	AC-058	14-Jan-21
21010044-001	1-Pentene		0.75	ppbv	0.01	AC-058	14-Jan-21
21010044-001	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	2,2-Dimethylbutane		0.31	ppbv	0.01	AC-058	14-Jan-21
21010044-001	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	2,3-Dimethylbutane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Jan-21
21010044-001	2,3-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Jan-21
21010044-001	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	2-Methylhexane	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	2-Methylpentane		0.82	ppbv	0.01	AC-058	14-Jan-21
21010044-001	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Jan-21
21010044-001	3-Methylhexane		0.24	ppbv	0.03	AC-058	14-Jan-21
21010044-001	3-Methylpentane		0.60	ppbv	0.01	AC-058	14-Jan-21
21010044-001	Acetone		5.0	ppbv	0.6	AC-058	14-Jan-21
21010044-001	Acrolein		0.9	ppbv	0.4	AC-058	14-Jan-21
21010044-001	Benzene		0.42	ppbv	0.01	AC-058	14-Jan-21

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PRAMP_986-2021/01/09	28886	Ambient Air	08-Jan-21	11:35
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	21010044	REPORT CREATED:	15-Jan-21	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21010044-001	Benzyl chloride	K, T, U	< 0.6 ppbv	0.6	AC-058	14-Jan-21
21010044-001	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Bromoform	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Bromomethane	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	Carbon disulfide	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	Carbon tetrachloride	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	Chlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Chloroethane	I	0.30 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Chloroform	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Chloromethane		1.52 ppbv	0.03	AC-058	14-Jan-21
21010044-001	cis-1,2-Dichloroethene	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	cis-1,3-Dichloropropene	K, T, U	< 0.06 ppbv	0.06	AC-058	14-Jan-21
21010044-001	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	cis-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Cyclohexane	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Cyclopentane	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	Dibromochloromethane	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	Ethanol		397 ppbv	6.2	AC-058	14-Jan-21
21010044-001	Ethyl acetate	K, T, U	< 0.6 ppbv	0.6	AC-058	14-Jan-21
21010044-001	Ethylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	Freon-11		0.47 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Freon-113	I	0.21 ppbv	0.01	AC-058	14-Jan-21
21010044-001	Freon-114	I	0.07 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Freon-12		0.92 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Hexachloro-1,3-butadiene	K, T, U	< 0.69 ppbv	0.69	AC-058	14-Jan-21

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PRAMP_986-2021/01/09	28886	Ambient Air	08-Jan-21	11:35
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	21010044	REPORT CREATED:	15-Jan-21	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21010044-001	Isobutane		3.04	ppbv	0.03	AC-058	14-Jan-21
21010044-001	Isopentane		7.68	ppbv	0.04	AC-058	14-Jan-21
21010044-001	Isoprene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	Isopropyl alcohol		2.3	ppbv	0.6	AC-058	14-Jan-21
21010044-001	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	14-Jan-21
21010044-001	m,p-Xylene	K, T, U	< 0.04	ppbv	0.04	AC-058	14-Jan-21
21010044-001	m-Diethylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	14-Jan-21
21010044-001	m-Ethyltoluene	K, T, U	< 0.11	ppbv	0.11	AC-058	14-Jan-21
21010044-001	Methyl butyl ketone	K, T, U	< 0.69	ppbv	0.69	AC-058	14-Jan-21
21010044-001	Methyl ethyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	14-Jan-21
21010044-001	Methyl isobutyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	14-Jan-21
21010044-001	Methyl methacrylate	K, T, U	< 0.10	ppbv	0.10	AC-058	14-Jan-21
21010044-001	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	14-Jan-21
21010044-001	Methylcyclohexane		0.23	ppbv	0.01	AC-058	14-Jan-21
21010044-001	Methylcyclopentane	K, T, U	< 0.03	ppbv	0.03	AC-058	14-Jan-21
21010044-001	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	14-Jan-21
21010044-001	n-Butane		2.67	ppbv	0.04	AC-058	14-Jan-21
21010044-001	n-Decane	K, T, U	< 0.08	ppbv	0.08	AC-058	14-Jan-21
21010044-001	n-Dodecane	K, T, U	< 0.6	ppbv	0.6	AC-058	14-Jan-21
21010044-001	n-Heptane		0.36	ppbv	0.01	AC-058	14-Jan-21
21010044-001	n-Hexane		1.36	ppbv	0.01	AC-058	14-Jan-21
21010044-001	n-Octane		0.22	ppbv	0.03	AC-058	14-Jan-21
21010044-001	n-Pentane		7.3	ppbv	0.1	AC-058	14-Jan-21
21010044-001	n-Propylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	14-Jan-21
21010044-001	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	14-Jan-21

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CLIENT SAMPLE ID PRAMP_986-2021/01/09	CANISTER ID 28886	Matrix Ambient Air	DATE SAMPLED 08-Jan-21 11:35
DESCRIPTION: NMHC Trigger			
REPORT NUMBER: 21010044	REPORT CREATED: 15-Jan-21		VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21010044-001	Naphthalene	K, T, U	< 0.7 ppbv	0.7	AC-058	14-Jan-21
21010044-001	n-Nonane	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	o-Ethyltoluene	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	o-Xylene	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	p-Diethylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	14-Jan-21
21010044-001	p-Ethyltoluene	K, T, U	< 0.10 ppbv	0.10	AC-058	14-Jan-21
21010044-001	Styrene	K, T, U	< 0.06 ppbv	0.06	AC-058	14-Jan-21
21010044-001	Tetrachloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	14-Jan-21
21010044-001	Tetrahydrofuran	K, T, U	< 0.6 ppbv	0.6	AC-058	14-Jan-21
21010044-001	Toluene	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	trans-1,2-Dichloroethylene		0.56 ppbv	0.01	AC-058	14-Jan-21
21010044-001	trans-1,3-Dichloropropylene	K, T, U	< 0.06 ppbv	0.06	AC-058	14-Jan-21
21010044-001	trans-2-Butene	K, T, U	< 0.01 ppbv	0.01	AC-058	14-Jan-21
21010044-001	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21
21010044-001	Trichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	14-Jan-21
21010044-001	Vinyl acetate	K, T, U	< 0.6 ppbv	0.6	AC-058	14-Jan-21
21010044-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	14-Jan-21

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-NMHC_Blank	28968	Ambient Air	08-Jan-21	11:35
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	21010044	REPORT CREATED:	15-Jan-21	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21010044-002	1-Butene	K, T, U	< 0.10	ppmv	0.10	NA-025	13-Jan-21
21010044-002	Acetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	13-Jan-21
21010044-002	n-Butane	K, T, U	< 0.2	ppmv	0.2	NA-025	13-Jan-21
21010044-002	cis-2-Butene	K, T, U	< 0.04	ppmv	0.04	NA-025	13-Jan-21
21010044-002	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-002	Ethylacetylene	K, T, U	< 0.06	ppmv	0.06	NA-025	13-Jan-21
21010044-002	Ethylene	K, T, U	< 0.07	ppmv	0.07	NA-025	13-Jan-21
21010044-002	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-002	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-002	Methane	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-002	n-Propane	K, T, U	< 0.07	ppmv	0.07	NA-025	13-Jan-21
21010044-002	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-002	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	13-Jan-21
21010044-002	trans-2-Butene	K, T, U	< 0.09	ppmv	0.09	NA-025	13-Jan-21
21010044-002	2,5-Dimethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	2-Ethylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	12-Jan-21
21010044-002	2-Methylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	12-Jan-21
21010044-002	3-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	Carbon disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	12-Jan-21
21010044-002	Carbonyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	Dimethyl disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	12-Jan-21
21010044-002	Dimethyl sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	12-Jan-21
21010044-002	Ethyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	Ethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-NMHC_Blank	28968	Ambient Air	08-Jan-21	11:35
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	21010044	REPORT CREATED:	15-Jan-21	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21010044-002	Hydrogen sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	Isopropyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	12-Jan-21
21010044-002	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Jan-21
21010044-002	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	12-Jan-21
21010044-002	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	12-Jan-21
21010044-002	Thiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	12-Jan-21
21010044-002	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1,1-Dichloroethylene	K, T, U	< 0.04	ppbv	0.04	AC-058	13-Jan-21
21010044-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	13-Jan-21
21010044-002	1,2,4-Trichlorobenzene	K, T, U	< 0.8	ppbv	0.8	AC-058	13-Jan-21
21010044-002	1,2,4-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	13-Jan-21
21010044-002	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	13-Jan-21
21010044-002	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	1,3,5-Trimethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1,3-Butadiene	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1,3-Dichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	13-Jan-21
21010044-002	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	13-Jan-21
21010044-002	1,4-Dioxane	K, T, U	< 0.4	ppbv	0.4	AC-058	13-Jan-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: January 15, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-NMHC_Blank	28968	Ambient Air	08-Jan-21	11:35
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	21010044	REPORT CREATED:	15-Jan-21	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21010044-002	1-Butene/Isobutylene		0.73	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	1-Pentene	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	2,2-Dimethylbutane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	2,3-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	2-Methylhexane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	2-Methylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	3-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	3-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	3-Methylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	Acetone		0.5	ppbv	0.4	AC-058	13-Jan-21
21010044-002	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	13-Jan-21
21010044-002	Benzene	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	13-Jan-21
21010044-002	Bromodichloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21
21010044-002	Bromomethane	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	Carbon disulfide	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	Carbon tetrachloride	K, T, U	< 0.01	ppbv	0.01	AC-058	13-Jan-21
21010044-002	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	13-Jan-21

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_986-NMHC_Blank	28968	Ambient Air	08-Jan-21	11:35
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	21010044	REPORT CREATED:	15-Jan-21	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21010044-002	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Chloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	cis-1,2-Dichloroethene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	cis-1,3-Dichloropropene	K, T, U	< 0.04 ppbv	0.04	AC-058	13-Jan-21
21010044-002	cis-2-Butene	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Cyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Cyclopentane	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	Dibromochloromethane	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	Ethanol		1.2 ppbv	0.3	AC-058	13-Jan-21
21010044-002	Ethyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	13-Jan-21
21010044-002	Ethylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Freon-113	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	Freon-114	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Freon-12	I	0.07 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Hexachloro-1,3-butadiene	K, T, U	< 0.50 ppbv	0.50	AC-058	13-Jan-21
21010044-002	Isobutane		0.61 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Isopentane		0.18 ppbv	0.03	AC-058	13-Jan-21
21010044-002	Isoprene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	Isopropyl alcohol		0.5 ppbv	0.4	AC-058	13-Jan-21
21010044-002	Isopropylbenzene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	m,p-Xylene	K, T, U	< 0.03 ppbv	0.03	AC-058	13-Jan-21
21010044-002	m-Diethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	13-Jan-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: January 15, 2021

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED
PRAMP_986-NMHC_Blank	28968	Ambient Air	08-Jan-21 11:35
DESCRIPTION:	NMHC Blank		
REPORT NUMBER:	21010044	REPORT CREATED:	15-Jan-21
		VERSION:	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21010044-002	m-Ethyltoluene	K, T, U	< 0.08 ppbv	0.08	AC-058	13-Jan-21
21010044-002	Methyl butyl ketone	K, T, U	< 0.50 ppbv	0.50	AC-058	13-Jan-21
21010044-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	13-Jan-21
21010044-002	Methyl isobutyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	13-Jan-21
21010044-002	Methyl methacrylate	K, T, U	< 0.07 ppbv	0.07	AC-058	13-Jan-21
21010044-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	13-Jan-21
21010044-002	Methylcyclohexane	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	Methylcyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	13-Jan-21
21010044-002	n-Butane		0.26 ppbv	0.03	AC-058	13-Jan-21
21010044-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	13-Jan-21
21010044-002	n-Dodecane	K, T, U	< 0.4 ppbv	0.4	AC-058	13-Jan-21
21010044-002	n-Heptane	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	n-Hexane	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	n-Octane	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	n-Pentane	K, T, U	< 0.1 ppbv	0.1	AC-058	13-Jan-21
21010044-002	n-Propylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	13-Jan-21
21010044-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	13-Jan-21
21010044-002	Naphthalene	K, T, U	< 0.5 ppbv	0.5	AC-058	13-Jan-21
21010044-002	n-Nonane	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	o-Ethyltoluene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	o-Xylene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	p-Diethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	13-Jan-21
21010044-002	p-Ethyltoluene	K, T, U	< 0.07 ppbv	0.07	AC-058	13-Jan-21
21010044-002	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	13-Jan-21

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

Date: January 15, 2021

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID PRAMP_986-NMHC_Blank	CANISTER ID 28968	Matrix Ambient Air	DATE SAMPLED 08-Jan-21 11:35
DESCRIPTION: NMHC Blank			
REPORT NUMBER: 21010044	REPORT CREATED: 15-Jan-21		VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21010044-002	Tetrachloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	13-Jan-21
21010044-002	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	13-Jan-21
21010044-002	Toluene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	trans-1,2-Dichloroethylene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	trans-1,3-Dichloropropylene	K, T, U	< 0.04 ppbv	0.04	AC-058	13-Jan-21
21010044-002	trans-2-Butene	K, T, U	< 0.01 ppbv	0.01	AC-058	13-Jan-21
21010044-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21
21010044-002	Trichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	13-Jan-21
21010044-002	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	13-Jan-21
21010044-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	13-Jan-21

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

Date: January 15, 2021

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Revision History

Order ID	Ver	Date	Reason
21010044	01	15-Jan-21	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



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TEST REPORT

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Sample Comments



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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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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.*