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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_842-20200812 CANISTER ID: 32185 PRIORITY: Normal DESCRIPTION: NMHC Trigger DATE SAMPLED: 12-Aug-20 12:40 REPORT CREATED: 25-Aug-20	Matrix Ambient Air DATE RECEIVED: 14-Aug-20 REPORT NUMBER: 20080172 VERSION: Version 01
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Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-001	1-Butene	K, T, U	< 0.14	ppmv	0.14	NA-025	17-Aug-20
20080172-001	Acetylene	K, T, U	< 0.12	ppmv	0.12	NA-025	17-Aug-20
20080172-001	n-Butane	K, T, U	< 0.3	ppmv	0.3	NA-025	17-Aug-20
20080172-001	cis-2-Butene	K, T, U	< 0.06	ppmv	0.06	NA-025	17-Aug-20
20080172-001	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-001	Ethylacetylene	K, T, U	< 0.09	ppmv	0.09	NA-025	17-Aug-20
20080172-001	Ethylene	K, T, U	< 0.10	ppmv	0.10	NA-025	17-Aug-20
20080172-001	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-001	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-001	Methane		1.5	ppmv	0.1	NA-025	17-Aug-20
20080172-001	n-Propane	K, T, U	< 0.10	ppmv	0.10	NA-025	17-Aug-20
20080172-001	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-001	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-001	trans-2-Butene	K, T, U	< 0.13	ppmv	0.13	NA-025	17-Aug-20
20080172-001	2,5-Dimethylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-001	2-Ethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-001	2-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-001	3-Methylthiophene	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: August 25, 2020

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842-20200812	32185	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-001	Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-001	Carbon disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-001	Carbonyl sulphide		1.7	ppbv	0.4	NA-024	18-Aug-20
20080172-001	Dimethyl disulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-001	Dimethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-001	Ethyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-001	Ethyl sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-001	Hydrogen sulphide		1.1	ppbv	0.4	NA-024	18-Aug-20
20080172-001	Isobutyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-001	Isopropyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-001	Methyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-001	Pentyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	18-Aug-20
20080172-001	Propyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	18-Aug-20
20080172-001	tert-Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-001	Thiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-001	1,1,1-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1,1,2-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1,1-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1,1-Dichloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-001	1,2,3-Trimethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	21-Aug-20
20080172-001	1,2,4-Trichlorobenzene	K, T, U	< 1.2	ppbv	1.2	AC-058	21-Aug-20
20080172-001	1,2,4-Trimethylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	21-Aug-20
20080172-001	1,2-Dibromoethane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1,2-Dichlorobenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	21-Aug-20

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20080172-001	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-001	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	21-Aug-20
20080172-001	1,4-Dioxane	K, T, U	< 0.6	ppbv	0.6	AC-058	21-Aug-20
20080172-001	1-Butene/Isobutylene		0.97	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	1-Pentene		0.33	ppbv	0.01	AC-058	21-Aug-20
20080172-001	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	2,2-Dimethylbutane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	2,3-Dimethylbutane		0.06	ppbv	0.03	AC-058	21-Aug-20
20080172-001	2,3-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	2-Methylhexane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	2-Methylpentane		0.10	ppbv	0.01	AC-058	21-Aug-20
20080172-001	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	3-Methylhexane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	3-Methylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Acetone		6.9	ppbv	0.6	AC-058	21-Aug-20
20080172-001	Acrolein	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-001	Benzene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20

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20080172-001	Benzyl chloride	K, T, U	< 0.6	ppbv	0.6	AC-058	21-Aug-20
20080172-001	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Bromoform	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Bromomethane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Carbon disulfide	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Carbon tetrachloride	I	0.14	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Chloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Chloroform	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Chloromethane		0.80	ppbv	0.03	AC-058	21-Aug-20
20080172-001	cis-1,2-Dichloroethene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	cis-1,3-Dichloropropene	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-001	cis-2-Butene	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	cis-2-Pentene		0.45	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Cyclohexane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Cyclopentane		0.58	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Dibromochloromethane	I	0.06	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Ethanol		7.1	ppbv	0.4	AC-058	21-Aug-20
20080172-001	Ethyl acetate	K, T, U	< 0.6	ppbv	0.6	AC-058	21-Aug-20
20080172-001	Ethylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Freon-11	I	0.33	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Freon-113	I	0.12	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Freon-114	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Freon-12		0.52	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Hexachloro-1,3-butadiene	K, T, U	< 0.72	ppbv	0.72	AC-058	21-Aug-20

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PRAMP_842-20200812	32185	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-001	Isobutane		0.30	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Isopentane		0.10	ppbv	0.04	AC-058	21-Aug-20
20080172-001	Isoprene		0.85	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Isopropyl alcohol		4.4	ppbv	0.6	AC-058	21-Aug-20
20080172-001	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	m,p-Xylene	K, T, U	< 0.04	ppbv	0.04	AC-058	21-Aug-20
20080172-001	m-Diethylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-001	m-Ethyltoluene	K, T, U	< 0.12	ppbv	0.12	AC-058	21-Aug-20
20080172-001	Methyl butyl ketone	K, T, U	< 0.72	ppbv	0.72	AC-058	21-Aug-20
20080172-001	Methyl ethyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-001	Methyl isobutyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	21-Aug-20
20080172-001	Methyl methacrylate	K, T, U	< 0.10	ppbv	0.10	AC-058	21-Aug-20
20080172-001	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	21-Aug-20
20080172-001	Methylcyclohexane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	Methylcyclopentane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-001	n-Butane		0.23	ppbv	0.04	AC-058	21-Aug-20
20080172-001	n-Decane	K, T, U	< 0.09	ppbv	0.09	AC-058	21-Aug-20
20080172-001	n-Dodecane	K, T, U	< 0.6	ppbv	0.6	AC-058	21-Aug-20
20080172-001	n-Heptane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	n-Hexane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	n-Octane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	n-Pentane	K, T, U	< 0.1	ppbv	0.1	AC-058	21-Aug-20
20080172-001	n-Propylbenzene	K, T, U	< 0.07	ppbv	0.07	AC-058	21-Aug-20
20080172-001	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	21-Aug-20

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842-20200812	32185	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Trigger			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-001	Naphthalene	K, T, U	< 0.7	ppbv	0.7	AC-058	21-Aug-20
20080172-001	n-Nonane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	o-Ethyltoluene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	o-Xylene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	p-Diethylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-001	p-Ethyltoluene	K, T, U	< 0.10	ppbv	0.10	AC-058	21-Aug-20
20080172-001	Styrene	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-001	Tetrachloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-001	Tetrahydrofuran	K, T, U	< 0.6	ppbv	0.6	AC-058	21-Aug-20
20080172-001	Toluene		0.16	ppbv	0.01	AC-058	21-Aug-20
20080172-001	trans-1,2-Dichloroethylene		2.69	ppbv	0.01	AC-058	21-Aug-20
20080172-001	trans-1,3-Dichloropropylene	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-001	trans-2-Butene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-001	trans-2-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-001	Trichloroethylene	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-001	Vinyl acetate	K, T, U	< 0.6	ppbv	0.6	AC-058	21-Aug-20
20080172-001	Vinyl chloride	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842-20200812-Blank	32275	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-002	1-Butene	K, T, U	< 0.10	ppmv	0.10	NA-025	17-Aug-20
20080172-002	Acetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	17-Aug-20
20080172-002	n-Butane	K, T, U	< 0.2	ppmv	0.2	NA-025	17-Aug-20
20080172-002	cis-2-Butene	K, T, U	< 0.04	ppmv	0.04	NA-025	17-Aug-20
20080172-002	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-002	Ethylacetylene	K, T, U	< 0.06	ppmv	0.06	NA-025	17-Aug-20
20080172-002	Ethylene	K, T, U	< 0.07	ppmv	0.07	NA-025	17-Aug-20
20080172-002	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-002	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-002	Methane	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-002	n-Propane	K, T, U	< 0.07	ppmv	0.07	NA-025	17-Aug-20
20080172-002	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-002	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	17-Aug-20
20080172-002	trans-2-Butene	K, T, U	< 0.09	ppmv	0.09	NA-025	17-Aug-20
20080172-002	2,5-Dimethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-002	2-Ethylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	18-Aug-20
20080172-002	2-Methylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	18-Aug-20
20080172-002	3-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-002	Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-002	Carbon disulphide		1.2	ppbv	0.2	NA-024	18-Aug-20
20080172-002	Carbonyl sulphide		2.8	ppbv	0.3	NA-024	18-Aug-20
20080172-002	Dimethyl disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	18-Aug-20
20080172-002	Dimethyl sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	18-Aug-20
20080172-002	Ethyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-002	Ethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20

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PRAMP_842-20200812-Blank	32275	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-002	Hydrogen sulphide		0.4	ppbv	0.3	NA-024	18-Aug-20
20080172-002	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-002	Isopropyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-002	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	18-Aug-20
20080172-002	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-002	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	18-Aug-20
20080172-002	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	18-Aug-20
20080172-002	Thiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	18-Aug-20
20080172-002	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1,1-Dichloroethylene	K, T, U	< 0.04	ppbv	0.04	AC-058	21-Aug-20
20080172-002	1,2,3-Trimethylbenzene	I	0.08	ppbv	0.05	AC-058	21-Aug-20
20080172-002	1,2,4-Trichlorobenzene	K, T, U	< 0.8	ppbv	0.8	AC-058	21-Aug-20
20080172-002	1,2,4-Trimethylbenzene		0.08	ppbv	0.05	AC-058	21-Aug-20
20080172-002	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-002	1,2-Dichloroethane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	1,2-Dichloropropane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	1,3,5-Trimethylbenzene		0.03	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1,3-Butadiene	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1,3-Dichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	21-Aug-20
20080172-002	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-002	1,4-Dioxane	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: August 25, 2020

Inquiries: (780) 632 8455

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842-20200812-Blank	32275	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-002	1-Butene/Isobutylene		0.35	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	1-Pentene		0.75	ppbv	0.01	AC-058	21-Aug-20
20080172-002	2,2,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	2,2-Dimethylbutane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	2,3,4-Trimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	2,3-Dimethylbutane		0.03	ppbv	0.02	AC-058	21-Aug-20
20080172-002	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	2,4-Dimethylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	2-Methylheptane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	2-Methylhexane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	2-Methylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	3-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	3-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	3-Methylpentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Acetone		2.6	ppbv	0.4	AC-058	21-Aug-20
20080172-002	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	21-Aug-20
20080172-002	Benzene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-002	Bromodichloromethane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Bromomethane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Carbon disulfide	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Carbon tetrachloride	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842-20200812-Blank	32275	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-002	Chloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Chloroform	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Chloromethane	I	0.13	ppbv	0.02	AC-058	21-Aug-20
20080172-002	cis-1,2-Dichloroethene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	cis-1,3-Dichloropropene	K, T, U	< 0.04	ppbv	0.04	AC-058	21-Aug-20
20080172-002	cis-2-Butene	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	cis-2-Pentene		0.34	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Cyclohexane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Cyclopentane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Dibromochloromethane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Ethanol		7.4	ppbv	0.3	AC-058	21-Aug-20
20080172-002	Ethyl acetate	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-002	Ethylbenzene		0.12	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Freon-11	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Freon-113	I	0.03	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Freon-114	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Freon-12	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Hexachloro-1,3-butadiene	K, T, U	< 0.50	ppbv	0.50	AC-058	21-Aug-20
20080172-002	Isobutane		0.27	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Isopentane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-002	Isoprene		0.31	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Isopropyl alcohol		12.1	ppbv	0.4	AC-058	21-Aug-20
20080172-002	Isopropylbenzene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	m,p-Xylene		0.48	ppbv	0.03	AC-058	21-Aug-20
20080172-002	m-Diethylbenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	21-Aug-20

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: August 25, 2020

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CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842-20200812-Blank	32275	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
20080172-002	m-Ethyltoluene	K, T, U	< 0.08	ppbv	0.08	AC-058	21-Aug-20
20080172-002	Methyl butyl ketone	K, T, U	< 0.50	ppbv	0.50	AC-058	21-Aug-20
20080172-002	Methyl ethyl ketone		0.3	ppbv	0.3	AC-058	21-Aug-20
20080172-002	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-002	Methyl methacrylate	K, T, U	< 0.07	ppbv	0.07	AC-058	21-Aug-20
20080172-002	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-002	Methylcyclohexane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	Methylcyclopentane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	Methylene chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	21-Aug-20
20080172-002	n-Butane	K, T, U	< 0.03	ppbv	0.03	AC-058	21-Aug-20
20080172-002	n-Decane	K, T, U	< 0.06	ppbv	0.06	AC-058	21-Aug-20
20080172-002	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	21-Aug-20
20080172-002	n-Heptane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	n-Hexane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	n-Octane	K, T, U	< 0.02	ppbv	0.02	AC-058	21-Aug-20
20080172-002	n-Pentane	K, T, U	< 0.1	ppbv	0.1	AC-058	21-Aug-20
20080172-002	n-Propylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	21-Aug-20
20080172-002	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	21-Aug-20
20080172-002	Naphthalene	K, T, U	< 0.5	ppbv	0.5	AC-058	21-Aug-20
20080172-002	n-Nonane	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	o-Ethyltoluene	K, T, U	< 0.01	ppbv	0.01	AC-058	21-Aug-20
20080172-002	o-Xylene		0.35	ppbv	0.01	AC-058	21-Aug-20
20080172-002	p-Diethylbenzene	I	0.17	ppbv	0.04	AC-058	21-Aug-20
20080172-002	p-Ethyltoluene	K, T, U	< 0.07	ppbv	0.07	AC-058	21-Aug-20
20080172-002	Styrene	K, T, U	< 0.04	ppbv	0.04	AC-058	21-Aug-20

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Date: August 25, 2020

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

CLIENT SAMPLE ID	CANISTER ID	Matrix	DATE SAMPLED	
PRAMP_842-20200812-Blank	32275	Ambient Air	12-Aug-20	12:40
DESCRIPTION:	NMHC Blank			
REPORT NUMBER:	20080172	REPORT CREATED:	25-Aug-20	VERSION: Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
20080172-002	Tetrachloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	21-Aug-20
20080172-002	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	21-Aug-20
20080172-002	Toluene		0.15 ppbv	0.01	AC-058	21-Aug-20
20080172-002	trans-1,2-Dichloroethylene		6.04 ppbv	0.01	AC-058	21-Aug-20
20080172-002	trans-1,3-Dichloropropylene	K, T, U	< 0.04 ppbv	0.04	AC-058	21-Aug-20
20080172-002	trans-2-Butene	K, T, U	< 0.01 ppbv	0.01	AC-058	21-Aug-20
20080172-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	21-Aug-20
20080172-002	Trichloroethylene	K, T, U	< 0.04 ppbv	0.04	AC-058	21-Aug-20
20080172-002	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	21-Aug-20
20080172-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	21-Aug-20

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: August 25, 2020

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ENVIRONMENTAL ANALYTICAL SERVICES

TEST REPORT

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Revision History

Order ID	Ver	Date	Reason
20080172	01	25-Aug-20	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

20080172

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ENVIRONMENTAL ANALYTICAL SERVICES

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.*