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 Vegreville, Alberta  
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 (780) 632-8211

# ENVIRONMENTAL ANALYTICAL SERVICES

## TEST REPORT

<b>RESULTS:</b> Karla Reesor 403 807 2995 Peace River Area Monitoring Program Committee	<b>CLIENT SAMPLE ID</b> PRAMP_842-2021/06/30  <b>CANISTER ID:</b> 29002 <b>PRIORITY:</b> Normal <b>DESCRIPTION:</b> NMHC Trigger  <b>DATE SAMPLED:</b> 29-Jun-21 20:40 <b>REPORT CREATED:</b> 23-Jul-21	<b>Matrix</b> Ambient Air  <b>DATE RECEIVED:</b> 02-Jul-21 <b>REPORT NUMBER:</b> 21070004 <b>VERSION:</b> Version 01
<b>INVOICE:</b> Office Manager		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-005	1-Butene	K, T, U	< 0.14 ppmv	0.14	NA-025	02-Jul-21
21070004-005	Acetylene	K, T, U	< 0.11 ppmv	0.11	NA-025	02-Jul-21
21070004-005	n-Butane	K, T, U	< 0.3 ppmv	0.3	NA-025	02-Jul-21
21070004-005	cis-2-Butene	K, T, U	< 0.06 ppmv	0.06	NA-025	02-Jul-21
21070004-005	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-005	Ethylacetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	02-Jul-21
21070004-005	Ethylene	K, T, U	< 0.10 ppmv	0.10	NA-025	02-Jul-21
21070004-005	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-005	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-005	Methane		1.5 ppmv	0.1	NA-025	02-Jul-21
21070004-005	n-Propane	K, T, U	< 0.10 ppmv	0.10	NA-025	02-Jul-21
21070004-005	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-005	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-005	trans-2-Butene	K, T, U	< 0.12 ppmv	0.12	NA-025	02-Jul-21
21070004-005	2,5-Dimethylthiophene	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	2-Ethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-005	2-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-005	3-Methylthiophene	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_842-2021/06/30	29002	Ambient Air	29-Jun-21	20:40
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01	
21070004	23-Jul-21			

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-005	Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-005	Carbonyl sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-005	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-005	Ethyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	Ethyl sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	Hydrogen sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	Isobutyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	Isopropyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-005	Pentyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	02-Jul-21
21070004-005	Propyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	02-Jul-21
21070004-005	tert-Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-005	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-005	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	1,1-Dichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	1,2,3-Trimethylbenzene	K, T, U	< 0.07 ppbv	0.07	AC-058	06-Jul-21
21070004-005	1,2,4-Trichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-005	1,2,4-Trimethylbenzene	I	0.19 ppbv	0.04	AC-058	06-Jul-21
21070004-005	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	1,2-Dichlorobenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: July 23, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_842-2021/06/30	29002	Ambient Air	29-Jun-21	20:40
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01	
21070004	23-Jul-21			

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21070004-005	1,2-Dichloroethane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	1,2-Dichloropropane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	1,3,5-Trimethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	1,3-Butadiene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	1,3-Dichlorobenzene	K, T, U	< 0.6 ppbv	0.6	AC-058	06-Jul-21
21070004-005	1,4-Dichlorobenzene	K, T, U	< 0.6 ppbv	0.6	AC-058	06-Jul-21
21070004-005	1,4-Dioxane	K, T, U	< 0.7 ppbv	0.7	AC-058	06-Jul-21
21070004-005	1-Butene/Isobutylene		1.07 ppbv	0.08	AC-058	06-Jul-21
21070004-005	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.10 ppbv	0.10	AC-058	06-Jul-21
21070004-005	1-Pentene		0.19 ppbv	0.04	AC-058	06-Jul-21
21070004-005	2,2,4-Trimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	2,2-Dimethylbutane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	2,3,4-Trimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	2,3-Dimethylbutane		1.47 ppbv	0.12	AC-058	06-Jul-21
21070004-005	2,3-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	2,4-Dimethylpentane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	2-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	2-Methylhexane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	2-Methylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	3-Methylheptane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	3-Methylhexane	I	0.07 ppbv	0.03	AC-058	06-Jul-21
21070004-005	3-Methylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Acetone		12.2 ppbv	0.6	AC-058	06-Jul-21
21070004-005	Acrolein	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-005	Benzene	I	0.10 ppbv	0.04	AC-058	06-Jul-21

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Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-005	Benzyl chloride	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-005	Bromodichloromethane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	Bromoform	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Bromomethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Carbon disulfide	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Carbon tetrachloride	I	0.07 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Chlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Chloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Chloroform	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Chloromethane		0.67 ppbv	0.06	AC-058	06-Jul-21
21070004-005	cis-1,2-Dichloroethene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	cis-1,3-Dichloropropene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	cis-2-Butene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	cis-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Cyclohexane	I	0.10 ppbv	0.06	AC-058	06-Jul-21
21070004-005	Cyclopentane		3.54 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Dibromochloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Ethanol		7.1 ppbv	0.7	AC-058	06-Jul-21
21070004-005	Ethyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-005	Ethylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	Freon-11		0.21 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Freon-113	I	0.07 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Freon-114	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	Freon-12		0.54 ppbv	0.04	AC-058	06-Jul-21
21070004-005	Hexachloro-1,3-butadiene	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21

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<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-005	Isobutane		1.23	ppbv	0.04	AC-058	06-Jul-21
21070004-005	Isopentane		0.78	ppbv	0.06	AC-058	06-Jul-21
21070004-005	Isoprene		49.5	ppbv	0.08	AC-058	06-Jul-21
21070004-005	Isopropyl alcohol		0.7	ppbv	0.4	AC-058	06-Jul-21
21070004-005	Isopropylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-005	m,p-Xylene	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-005	m-Diethylbenzene		0.17	ppbv	0.03	AC-058	06-Jul-21
21070004-005	m-Ethyltoluene		0.17	ppbv	0.04	AC-058	06-Jul-21
21070004-005	Methyl butyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	06-Jul-21
21070004-005	Methyl ethyl ketone		0.9	ppbv	0.4	AC-058	06-Jul-21
21070004-005	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-005	Methyl methacrylate	K, T, U	< 0.11	ppbv	0.11	AC-058	06-Jul-21
21070004-005	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-005	Methylcyclohexane	I	0.11	ppbv	0.03	AC-058	06-Jul-21
21070004-005	Methylcyclopentane	I	0.09	ppbv	0.07	AC-058	06-Jul-21
21070004-005	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-005	n-Butane		0.50	ppbv	0.03	AC-058	06-Jul-21
21070004-005	n-Decane	K, T, U	< 0.08	ppbv	0.08	AC-058	06-Jul-21
21070004-005	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-005	n-Heptane	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-005	n-Hexane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-005	n-Octane	I	0.14	ppbv	0.03	AC-058	06-Jul-21
21070004-005	n-Pentane		0.26	ppbv	0.06	AC-058	06-Jul-21
21070004-005	n-Propylbenzene	K, T, U	< 0.08	ppbv	0.08	AC-058	06-Jul-21
21070004-005	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	06-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_842-2021/06/30	29002	Ambient Air	29-Jun-21	20:40
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>		Version 01
21070004	23-Jul-21			

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-005	Naphthalene	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-005	n-Nonane	K, T, U	< 0.06 ppbv	0.06	AC-058	06-Jul-21
21070004-005	o-Ethyltoluene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	o-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	p-Diethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	p-Ethyltoluene	K, T, U	< 0.06 ppbv	0.06	AC-058	06-Jul-21
21070004-005	Styrene	K, T, U	< 0.06 ppbv	0.06	AC-058	06-Jul-21
21070004-005	Tetrachloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-005	Toluene	I	0.19 ppbv	0.04	AC-058	06-Jul-21
21070004-005	trans-1,2-Dichloroethylene		0.26 ppbv	0.08	AC-058	06-Jul-21
21070004-005	trans-1,3-Dichloropropylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	trans-2-Butene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-005	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Trichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-005	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-005	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_842-2021/06/30-Blank	28884	Ambient Air	29-Jun-21	20:40
<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-006	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	02-Jul-21
21070004-006	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	02-Jul-21
21070004-006	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	02-Jul-21
21070004-006	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	02-Jul-21
21070004-006	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-006	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	02-Jul-21
21070004-006	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	02-Jul-21
21070004-006	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-006	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-006	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-006	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	02-Jul-21
21070004-006	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-006	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-006	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	02-Jul-21
21070004-006	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-006	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-006	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-006	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-006	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-006	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-006	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-006	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-006	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-006	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-006	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21

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PRAMP_842-2021/06/30-Blank	28884	Ambient Air	29-Jun-21	20:40
<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

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21070004-006	Hydrogen sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-006	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-006	Isopropyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-006	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-006	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	02-Jul-21
21070004-006	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	02-Jul-21
21070004-006	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-006	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-006	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	1,1-Dichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	1,2,3-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	06-Jul-21
21070004-006	1,2,4-Trichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	06-Jul-21
21070004-006	1,2,4-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	1,2-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	1,2-Dichloropropane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-006	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-006	1,4-Dioxane	K, T, U	< 0.5	ppbv	0.5	AC-058	06-Jul-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: July 23, 2021

Inquiries: (780) 632 8455

E-mail: EAS.Results@innotechalberta.ca



<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_842-2021/06/30-Blank	28884	Ambient Air	29-Jun-21	20:40
<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-006	1-Butene/Isobutylene	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-006	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07	ppbv	0.07	AC-058	06-Jul-21
21070004-006	1-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	2,2,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	2,2-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	2,3,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	2,3-Dimethylbutane	K, T, U	< 0.09	ppbv	0.09	AC-058	06-Jul-21
21070004-006	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	2,4-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	2-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	2-Methylhexane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	2-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	3-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	3-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	Acetone	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-006	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	06-Jul-21
21070004-006	Benzene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	Benzyl chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	06-Jul-21
21070004-006	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	Bromomethane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	Carbon disulfide	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	Carbon tetrachloride	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_842-2021/06/30-Blank	28884	Ambient Air	29-Jun-21	20:40
<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-006	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Chloromethane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-006	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-006	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-006	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Cyclohexane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-006	Cyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Ethanol	K, T, U	< 0.5 ppbv	0.5	AC-058	06-Jul-21
21070004-006	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	06-Jul-21
21070004-006	Ethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-006	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-006	Freon-12	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-006	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	06-Jul-21
21070004-006	Isobutane		0.17 ppbv	0.03	AC-058	06-Jul-21
21070004-006	Isopentane	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-006	Isoprene	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Isopropyl alcohol	K, T, U	< 0.3 ppbv	0.3	AC-058	06-Jul-21
21070004-006	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-006	m,p-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-006	m-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21

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<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-006	m-Ethyltoluene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	Methyl butyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-006	Methyl ethyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	06-Jul-21
21070004-006	Methyl isobutyl ketone	K, T, U	< 0.3	ppbv	0.3	AC-058	06-Jul-21
21070004-006	Methyl methacrylate	K, T, U	< 0.08	ppbv	0.08	AC-058	06-Jul-21
21070004-006	Methyl tert butyl ether	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	Methylcyclohexane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	Methylcyclopentane	K, T, U	< 0.05	ppbv	0.05	AC-058	06-Jul-21
21070004-006	Methylene chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	06-Jul-21
21070004-006	n-Butane		0.10	ppbv	0.02	AC-058	06-Jul-21
21070004-006	n-Decane	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-006	n-Dodecane	K, T, U	< 0.3	ppbv	0.3	AC-058	06-Jul-21
21070004-006	n-Heptane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-006	n-Hexane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	n-Octane	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	n-Pentane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-006	n-Propylbenzene	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-006	n-Undecane	K, T, U	< 0.5	ppbv	0.5	AC-058	06-Jul-21
21070004-006	Naphthalene	K, T, U	< 0.3	ppbv	0.3	AC-058	06-Jul-21
21070004-006	n-Nonane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-006	o-Ethyltoluene	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	o-Xylene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-006	p-Diethylbenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	06-Jul-21
21070004-006	p-Ethyltoluene	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-006	Styrene	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_842-2021/06/30-Blank	28884	Ambient Air	29-Jun-21 20:40
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21
		<b>VERSION:</b>	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-006	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	06-Jul-21
21070004-006	Toluene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-006	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	06-Jul-21
21070004-006	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-006	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21
21070004-006	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	06-Jul-21
21070004-006	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	06-Jul-21

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_986-2021/06/30	29034	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-003	1-Butene	K, T, U	< 0.15 ppmv	0.15	NA-025	02-Jul-21
21070004-003	Acetylene	K, T, U	< 0.12 ppmv	0.12	NA-025	02-Jul-21
21070004-003	n-Butane	K, T, U	< 0.3 ppmv	0.3	NA-025	02-Jul-21
21070004-003	cis-2-Butene	K, T, U	< 0.06 ppmv	0.06	NA-025	02-Jul-21
21070004-003	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-003	Ethylacetylene	K, T, U	< 0.09 ppmv	0.09	NA-025	02-Jul-21
21070004-003	Ethylene	K, T, U	< 0.10 ppmv	0.10	NA-025	02-Jul-21
21070004-003	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-003	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-003	Methane		1.8 ppmv	0.1	NA-025	02-Jul-21
21070004-003	n-Propane	K, T, U	< 0.10 ppmv	0.10	NA-025	02-Jul-21
21070004-003	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-003	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-003	trans-2-Butene	K, T, U	< 0.13 ppmv	0.13	NA-025	02-Jul-21
21070004-003	2,5-Dimethylthiophene	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-003	2-Ethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-003	2-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-003	3-Methylthiophene	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-003	Butyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-003	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-003	Carbonyl sulphide		0.7 ppbv	0.4	NA-024	02-Jul-21
21070004-003	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-003	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-003	Ethyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-003	Ethyl sulphide	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21

Report certified by: Rebecca Holgate, Account Coordinator

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_986-2021/06/30	29034	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-003	Hydrogen sulphide	K, T, U	< 0.4	ppbv	0.4	NA-024	02-Jul-21
21070004-003	Isobutyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	02-Jul-21
21070004-003	Isopropyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	02-Jul-21
21070004-003	Methyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-003	Pentyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	02-Jul-21
21070004-003	Propyl mercaptan	K, T, U	< 0.6	ppbv	0.6	NA-024	02-Jul-21
21070004-003	tert-Butyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	02-Jul-21
21070004-003	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-003	1,1,1-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	1,1,2-Trichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	1,1-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	1,1-Dichloroethylene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	1,2,3-Trimethylbenzene		0.16	ppbv	0.07	AC-058	06-Jul-21
21070004-003	1,2,4-Trichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-003	1,2,4-Trimethylbenzene		0.32	ppbv	0.04	AC-058	06-Jul-21
21070004-003	1,2-Dibromoethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	1,2-Dichlorobenzene	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	1,2-Dichloroethane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	1,2-Dichloropropane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	1,3,5-Trimethylbenzene	I	0.19	ppbv	0.04	AC-058	06-Jul-21
21070004-003	1,3-Butadiene	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	1,3-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	06-Jul-21
21070004-003	1,4-Dichlorobenzene	K, T, U	< 0.6	ppbv	0.6	AC-058	06-Jul-21
21070004-003	1,4-Dioxane	K, T, U	< 0.7	ppbv	0.7	AC-058	06-Jul-21

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PRAMP_986-2021/06/30	29034	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-003	1-Butene/Isobutylene		1.59	ppbv	0.09	AC-058	06-Jul-21
21070004-003	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.10	ppbv	0.10	AC-058	06-Jul-21
21070004-003	1-Pentene		0.30	ppbv	0.04	AC-058	06-Jul-21
21070004-003	2,2,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	2,2-Dimethylbutane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	2,3,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	2,3-Dimethylbutane		1.60	ppbv	0.13	AC-058	06-Jul-21
21070004-003	2,3-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	2,4-Dimethylpentane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	2-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	2-Methylhexane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	2-Methylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	3-Methylheptane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	3-Methylhexane	I	0.08	ppbv	0.03	AC-058	06-Jul-21
21070004-003	3-Methylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	Acetone		15.7	ppbv	0.6	AC-058	06-Jul-21
21070004-003	Acrolein	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-003	Benzene	I	0.12	ppbv	0.04	AC-058	06-Jul-21
21070004-003	Benzyl chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-003	Bromodichloromethane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	Bromoform	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	Bromomethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	Carbon disulfide		0.31	ppbv	0.03	AC-058	06-Jul-21
21070004-003	Carbon tetrachloride	I	0.07	ppbv	0.03	AC-058	06-Jul-21
21070004-003	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: July 23, 2021

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_986-2021/06/30	29034	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-003	Chloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Chloroform	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Chloromethane		0.71 ppbv	0.06	AC-058	06-Jul-21
21070004-003	cis-1,2-Dichloroethene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	cis-1,3-Dichloropropene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-003	cis-2-Butene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-003	cis-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Cyclohexane	I	0.11 ppbv	0.06	AC-058	06-Jul-21
21070004-003	Cyclopentane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Dibromochloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Ethanol		8.5 ppbv	0.7	AC-058	06-Jul-21
21070004-003	Ethyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-003	Ethylbenzene	I	0.18 ppbv	0.04	AC-058	06-Jul-21
21070004-003	Freon-11		0.19 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Freon-113	I	0.07 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Freon-114	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-003	Freon-12		0.55 ppbv	0.04	AC-058	06-Jul-21
21070004-003	Hexachloro-1,3-butadiene	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-003	Isobutane		1.38 ppbv	0.04	AC-058	06-Jul-21
21070004-003	Isopentane		0.47 ppbv	0.06	AC-058	06-Jul-21
21070004-003	Isoprene		63.9 ppbv	0.09	AC-058	06-Jul-21
21070004-003	Isopropyl alcohol		1.1 ppbv	0.4	AC-058	06-Jul-21
21070004-003	Isopropylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	06-Jul-21
21070004-003	m,p-Xylene	I	0.37 ppbv	0.06	AC-058	06-Jul-21
21070004-003	m-Diethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_986-2021/06/30	29034	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-003	m-Ethyltoluene		0.16	ppbv	0.04	AC-058	06-Jul-21
21070004-003	Methyl butyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	06-Jul-21
21070004-003	Methyl ethyl ketone		1.3	ppbv	0.4	AC-058	06-Jul-21
21070004-003	Methyl isobutyl ketone	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-003	Methyl methacrylate	K, T, U	< 0.12	ppbv	0.12	AC-058	06-Jul-21
21070004-003	Methyl tert butyl ether	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	Methylcyclohexane	I	0.11	ppbv	0.03	AC-058	06-Jul-21
21070004-003	Methylcyclopentane	I	0.09	ppbv	0.07	AC-058	06-Jul-21
21070004-003	Methylene chloride	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-003	n-Butane		0.57	ppbv	0.03	AC-058	06-Jul-21
21070004-003	n-Decane	K, T, U	< 0.09	ppbv	0.09	AC-058	06-Jul-21
21070004-003	n-Dodecane	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-003	n-Heptane	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-003	n-Hexane	K, T, U	< 0.04	ppbv	0.04	AC-058	06-Jul-21
21070004-003	n-Octane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	n-Pentane		0.23	ppbv	0.06	AC-058	06-Jul-21
21070004-003	n-Propylbenzene	K, T, U	< 0.09	ppbv	0.09	AC-058	06-Jul-21
21070004-003	n-Undecane	K, T, U	< 0.7	ppbv	0.7	AC-058	06-Jul-21
21070004-003	Naphthalene	K, T, U	< 0.4	ppbv	0.4	AC-058	06-Jul-21
21070004-003	n-Nonane	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-003	o-Ethyltoluene	I	0.14	ppbv	0.03	AC-058	06-Jul-21
21070004-003	o-Xylene	I	0.26	ppbv	0.04	AC-058	06-Jul-21
21070004-003	p-Diethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-003	p-Ethyltoluene	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-003	Styrene		0.33	ppbv	0.06	AC-058	06-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_986-2021/06/30	29034	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>		<b>VERSION:</b>	Version 01
21070004	23-Jul-21			

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-003	Tetrachloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Tetrahydrofuran	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-003	Toluene	I	0.21 ppbv	0.04	AC-058	06-Jul-21
21070004-003	trans-1,2-Dichloroethylene		0.86 ppbv	0.09	AC-058	06-Jul-21
21070004-003	trans-1,3-Dichloropropylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	trans-2-Butene	K, T, U	< 0.04 ppbv	0.04	AC-058	06-Jul-21
21070004-003	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Trichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-003	Vinyl acetate	K, T, U	< 0.4 ppbv	0.4	AC-058	06-Jul-21
21070004-003	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_986-2021/06/30-Blank	32275	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-004	1-Butene	K, T, U	< 0.10	ppmv	0.10	NA-025	02-Jul-21
21070004-004	Acetylene	K, T, U	< 0.08	ppmv	0.08	NA-025	02-Jul-21
21070004-004	n-Butane	K, T, U	< 0.2	ppmv	0.2	NA-025	02-Jul-21
21070004-004	cis-2-Butene	K, T, U	< 0.04	ppmv	0.04	NA-025	02-Jul-21
21070004-004	Ethane	K, T, U	< 0.1	ppmv	0.1	NA-025	02-Jul-21
21070004-004	Ethylacetylene	K, T, U	< 0.06	ppmv	0.06	NA-025	02-Jul-21
21070004-004	Ethylene	K, T, U	< 0.07	ppmv	0.07	NA-025	02-Jul-21
21070004-004	Isobutane	K, T, U	< 0.1	ppmv	0.1	NA-025	02-Jul-21
21070004-004	Isobutylene	K, T, U	< 0.1	ppmv	0.1	NA-025	02-Jul-21
21070004-004	Methane	K, T, U	< 0.1	ppmv	0.1	NA-025	02-Jul-21
21070004-004	n-Propane	K, T, U	< 0.07	ppmv	0.07	NA-025	02-Jul-21
21070004-004	Propylene	K, T, U	< 0.1	ppmv	0.1	NA-025	02-Jul-21
21070004-004	Propyne	K, T, U	< 0.1	ppmv	0.1	NA-025	02-Jul-21
21070004-004	trans-2-Butene	K, T, U	< 0.09	ppmv	0.09	NA-025	02-Jul-21
21070004-004	2,5-Dimethylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	2-Ethylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-004	2-Methylthiophene	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-004	3-Methylthiophene	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	Carbon disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-004	Carbonyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	Dimethyl disulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-004	Dimethyl sulphide	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-004	Ethyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	Ethyl sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21

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

Date: July 23, 2021

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_986-2021/06/30-Blank	32275	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-004	Hydrogen sulphide	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	Isobutyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	Isopropyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	Methyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-004	Pentyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	02-Jul-21
21070004-004	Propyl mercaptan	K, T, U	< 0.4	ppbv	0.4	NA-024	02-Jul-21
21070004-004	tert-Butyl mercaptan	K, T, U	< 0.3	ppbv	0.3	NA-024	02-Jul-21
21070004-004	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2	ppbv	0.2	NA-024	02-Jul-21
21070004-004	1,1,1-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	1,1,2-Trichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	1,1-Dichloroethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	1,1-Dichloroethylene	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	1,2,3-Trimethylbenzene	K, T, U	< 0.05	ppbv	0.05	AC-058	05-Jul-21
21070004-004	1,2,4-Trichlorobenzene	K, T, U	< 0.3	ppbv	0.3	AC-058	05-Jul-21
21070004-004	1,2,4-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	1,2-Dibromoethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	1,2-Dichlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	1,2-Dichloroethane	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	1,2-Dichloropropane	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	1,3,5-Trimethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	1,3-Butadiene	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	1,3-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Jul-21
21070004-004	1,4-Dichlorobenzene	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Jul-21
21070004-004	1,4-Dioxane	K, T, U	< 0.5	ppbv	0.5	AC-058	05-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_986-2021/06/30-Blank	32275	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-004	1-Butene/Isobutylene	K, T, U	< 0.06	ppbv	0.06	AC-058	05-Jul-21
21070004-004	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07	ppbv	0.07	AC-058	05-Jul-21
21070004-004	1-Pentene	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	2,2,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	2,2-Dimethylbutane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	2,3,4-Trimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	2,3-Dimethylbutane	K, T, U	< 0.09	ppbv	0.09	AC-058	05-Jul-21
21070004-004	2,3-Dimethylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	2,4-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	2-Methylheptane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	2-Methylhexane	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	2-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	3-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	3-Methylhexane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	3-Methylpentane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	Acetone	K, T, U	< 0.4	ppbv	0.4	AC-058	05-Jul-21
21070004-004	Acrolein	K, T, U	< 0.3	ppbv	0.3	AC-058	05-Jul-21
21070004-004	Benzene	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	Benzyl chloride	K, T, U	< 0.3	ppbv	0.3	AC-058	05-Jul-21
21070004-004	Bromodichloromethane	K, T, U	< 0.03	ppbv	0.03	AC-058	05-Jul-21
21070004-004	Bromoform	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	Bromomethane	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	Carbon disulfide	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	Carbon tetrachloride	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21
21070004-004	Chlorobenzene	K, T, U	< 0.02	ppbv	0.02	AC-058	05-Jul-21

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PRAMP_986-2021/06/30-Blank	32275	Ambient Air	29-Jun-21	21:45
<b>DESCRIPTION:</b>	NMHC Blank			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-004	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Chloromethane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Cyclohexane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	Cyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Ethanol	K, T, U	< 0.5 ppbv	0.5	AC-058	05-Jul-21
21070004-004	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	Ethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	Freon-12	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	Isobutane		0.22 ppbv	0.03	AC-058	05-Jul-21
21070004-004	Isopentane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	Isoprene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Isopropyl alcohol	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	m,p-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	m-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: July 23, 2021

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E-mail: EAS.Results@innotechalberta.ca

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_986-2021/06/30-Blank	32275	Ambient Air	29-Jun-21 21:45
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
21070004	23-Jul-21		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-004	m-Ethyltoluene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	05-Jul-21
21070004-004	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	05-Jul-21
21070004-004	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	Methylcyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	05-Jul-21
21070004-004	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	n-Butane		0.12 ppbv	0.02	AC-058	05-Jul-21
21070004-004	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	05-Jul-21
21070004-004	n-Dodecane	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	n-Heptane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	n-Hexane	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	n-Octane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	n-Pentane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	n-Propylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	05-Jul-21
21070004-004	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	05-Jul-21
21070004-004	Naphthalene	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	n-Nonane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	o-Ethyltoluene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	o-Xylene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	p-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	p-Ethyltoluene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-004	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21

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# ENVIRONMENTAL ANALYTICAL SERVICES

## TEST REPORT

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_986-2021/06/30-Blank	32275	Ambient Air	29-Jun-21 21:45
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21
		<b>VERSION:</b>	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-004	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	Toluene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	05-Jul-21
21070004-004	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-004	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-004	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-004	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-2021/06/30	29032	Ambient Air	29-Jun-21 16:50
<b>DESCRIPTION:</b>	NMHC Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
21070004	23-Jul-21		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-001	1-Butene	K, T, U	< 0.16 ppmv	0.16	NA-025	02-Jul-21
21070004-001	Acetylene	K, T, U	< 0.13 ppmv	0.13	NA-025	02-Jul-21
21070004-001	n-Butane	K, T, U	< 0.3 ppmv	0.3	NA-025	02-Jul-21
21070004-001	cis-2-Butene	K, T, U	< 0.06 ppmv	0.06	NA-025	02-Jul-21
21070004-001	Ethane	K, T, U	< 0.2 ppmv	0.2	NA-025	02-Jul-21
21070004-001	Ethylacetylene	K, T, U	< 0.10 ppmv	0.10	NA-025	02-Jul-21
21070004-001	Ethylene	K, T, U	< 0.11 ppmv	0.11	NA-025	02-Jul-21
21070004-001	Isobutane	K, T, U	< 0.2 ppmv	0.2	NA-025	02-Jul-21
21070004-001	Isobutylene	K, T, U	< 0.2 ppmv	0.2	NA-025	02-Jul-21
21070004-001	Methane		1.9 ppmv	0.2	NA-025	02-Jul-21
21070004-001	n-Propane	K, T, U	< 0.11 ppmv	0.11	NA-025	02-Jul-21
21070004-001	Propylene	K, T, U	< 0.2 ppmv	0.2	NA-025	02-Jul-21
21070004-001	Propyne	K, T, U	< 0.2 ppmv	0.2	NA-025	02-Jul-21
21070004-001	trans-2-Butene	K, T, U	< 0.14 ppmv	0.14	NA-025	02-Jul-21
21070004-001	2,5-Dimethylthiophene	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	2-Ethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-001	2-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-001	3-Methylthiophene	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	Butyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	Carbon disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-001	Carbonyl sulphide	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	Dimethyl disulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-001	Dimethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-001	Ethyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	Ethyl sulphide	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_Reno-2021/06/30	29032	Ambient Air	29-Jun-21	16:50
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-001	Hydrogen sulphide	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	Isobutyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	Isopropyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	Methyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-001	Pentyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	02-Jul-21
21070004-001	Propyl mercaptan	K, T, U	< 0.6 ppbv	0.6	NA-024	02-Jul-21
21070004-001	tert-Butyl mercaptan	K, T, U	< 0.5 ppbv	0.5	NA-024	02-Jul-21
21070004-001	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-001	1,1,1-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	1,1,2,2-Tetrachloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	1,1,2-Trichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	1,1-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	1,1-Dichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	1,2,3-Trimethylbenzene		0.27 ppbv	0.08	AC-058	06-Jul-21
21070004-001	1,2,4-Trichlorobenzene	K, T, U	< 0.5 ppbv	0.5	AC-058	06-Jul-21
21070004-001	1,2,4-Trimethylbenzene		0.52 ppbv	0.05	AC-058	06-Jul-21
21070004-001	1,2-Dibromoethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	1,2-Dichlorobenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	06-Jul-21
21070004-001	1,2-Dichloroethane	K, T, U	< 0.05 ppbv	0.05	AC-058	06-Jul-21
21070004-001	1,2-Dichloropropane	K, T, U	< 0.05 ppbv	0.05	AC-058	06-Jul-21
21070004-001	1,3,5-Trimethylbenzene	I	0.24 ppbv	0.05	AC-058	06-Jul-21
21070004-001	1,3-Butadiene	K, T, U	< 0.05 ppbv	0.05	AC-058	06-Jul-21
21070004-001	1,3-Dichlorobenzene	K, T, U	< 0.6 ppbv	0.6	AC-058	06-Jul-21
21070004-001	1,4-Dichlorobenzene	K, T, U	< 0.6 ppbv	0.6	AC-058	06-Jul-21
21070004-001	1,4-Dioxane	K, T, U	< 0.8 ppbv	0.8	AC-058	06-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_Reno-2021/06/30	29032	Ambient Air	29-Jun-21	16:50
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-001	1-Butene/Isobutylene		1.72	ppbv	0.10	AC-058	06-Jul-21
21070004-001	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.11	ppbv	0.11	AC-058	06-Jul-21
21070004-001	1-Pentene		0.23	ppbv	0.05	AC-058	06-Jul-21
21070004-001	2,2,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	2,2-Dimethylbutane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	2,3,4-Trimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	2,3-Dimethylbutane		1.91	ppbv	0.14	AC-058	06-Jul-21
21070004-001	2,3-Dimethylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	2,4-Dimethylpentane	K, T, U	< 0.05	ppbv	0.05	AC-058	06-Jul-21
21070004-001	2-Methylheptane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	2-Methylhexane	K, T, U	< 0.05	ppbv	0.05	AC-058	06-Jul-21
21070004-001	2-Methylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	3-Methylheptane	K, T, U	< 0.05	ppbv	0.05	AC-058	06-Jul-21
21070004-001	3-Methylhexane	I	0.08	ppbv	0.03	AC-058	06-Jul-21
21070004-001	3-Methylpentane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	Acetone		12.6	ppbv	0.6	AC-058	06-Jul-21
21070004-001	Acrolein	K, T, U	< 0.5	ppbv	0.5	AC-058	06-Jul-21
21070004-001	Benzene	I	0.13	ppbv	0.05	AC-058	06-Jul-21
21070004-001	Benzyl chloride	K, T, U	< 0.5	ppbv	0.5	AC-058	06-Jul-21
21070004-001	Bromodichloromethane	K, T, U	< 0.05	ppbv	0.05	AC-058	06-Jul-21
21070004-001	Bromoform	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	Bromomethane	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	Carbon disulfide	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	Carbon tetrachloride	I	0.07	ppbv	0.03	AC-058	06-Jul-21
21070004-001	Chlorobenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-2021/06/30	29032	Ambient Air	29-Jun-21 16:50
<b>DESCRIPTION:</b>	NMHC Trigger		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
21070004	23-Jul-21		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-001	Chloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Chloroform	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Chloromethane		0.67 ppbv	0.06	AC-058	06-Jul-21
21070004-001	cis-1,2-Dichloroethene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	cis-1,3-Dichloropropene	K, T, U	< 0.05 ppbv	0.05	AC-058	06-Jul-21
21070004-001	cis-2-Butene	K, T, U	< 0.05 ppbv	0.05	AC-058	06-Jul-21
21070004-001	cis-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Cyclohexane	I	0.12 ppbv	0.06	AC-058	06-Jul-21
21070004-001	Cyclopentane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Dibromochloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Ethanol		6.9 ppbv	0.8	AC-058	06-Jul-21
21070004-001	Ethyl acetate	K, T, U	< 0.5 ppbv	0.5	AC-058	06-Jul-21
21070004-001	Ethylbenzene	I	0.28 ppbv	0.05	AC-058	06-Jul-21
21070004-001	Freon-11		0.20 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Freon-113	I	0.07 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Freon-114	K, T, U	< 0.05 ppbv	0.05	AC-058	06-Jul-21
21070004-001	Freon-12		0.52 ppbv	0.05	AC-058	06-Jul-21
21070004-001	Hexachloro-1,3-butadiene	K, T, U	< 0.5 ppbv	0.5	AC-058	06-Jul-21
21070004-001	Isobutane		1.34 ppbv	0.05	AC-058	06-Jul-21
21070004-001	Isopentane		0.59 ppbv	0.06	AC-058	06-Jul-21
21070004-001	Isoprene		56.5 ppbv	0.10	AC-058	06-Jul-21
21070004-001	Isopropyl alcohol		1.3 ppbv	0.5	AC-058	06-Jul-21
21070004-001	Isopropylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	06-Jul-21
21070004-001	m,p-Xylene		0.73 ppbv	0.06	AC-058	06-Jul-21
21070004-001	m-Diethylbenzene		0.16 ppbv	0.03	AC-058	06-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_Reno-2021/06/30	29032	Ambient Air	29-Jun-21	16:50
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result	Units	RDL	Method	Analysis Date
21070004-001	m-Ethyltoluene		0.19	ppbv	0.05	AC-058	06-Jul-21
21070004-001	Methyl butyl ketone	K, T, U	< 0.6	ppbv	0.6	AC-058	06-Jul-21
21070004-001	Methyl ethyl ketone		1.2	ppbv	0.5	AC-058	06-Jul-21
21070004-001	Methyl isobutyl ketone	K, T, U	< 0.5	ppbv	0.5	AC-058	06-Jul-21
21070004-001	Methyl methacrylate	K, T, U	< 0.13	ppbv	0.13	AC-058	06-Jul-21
21070004-001	Methyl tert butyl ether	K, T, U	< 0.05	ppbv	0.05	AC-058	06-Jul-21
21070004-001	Methylcyclohexane	I	0.13	ppbv	0.03	AC-058	06-Jul-21
21070004-001	Methylcyclopentane	I	0.10	ppbv	0.08	AC-058	06-Jul-21
21070004-001	Methylene chloride	K, T, U	< 0.5	ppbv	0.5	AC-058	06-Jul-21
21070004-001	n-Butane		0.52	ppbv	0.03	AC-058	06-Jul-21
21070004-001	n-Decane	K, T, U	< 0.10	ppbv	0.10	AC-058	06-Jul-21
21070004-001	n-Dodecane	K, T, U	< 0.5	ppbv	0.5	AC-058	06-Jul-21
21070004-001	n-Heptane	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-001	n-Hexane	K, T, U	< 0.05	ppbv	0.05	AC-058	06-Jul-21
21070004-001	n-Octane		0.17	ppbv	0.03	AC-058	06-Jul-21
21070004-001	n-Pentane		0.24	ppbv	0.06	AC-058	06-Jul-21
21070004-001	n-Propylbenzene	K, T, U	< 0.10	ppbv	0.10	AC-058	06-Jul-21
21070004-001	n-Undecane	K, T, U	< 0.8	ppbv	0.8	AC-058	06-Jul-21
21070004-001	Naphthalene	K, T, U	< 0.5	ppbv	0.5	AC-058	06-Jul-21
21070004-001	n-Nonane	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-001	o-Ethyltoluene		0.18	ppbv	0.03	AC-058	06-Jul-21
21070004-001	o-Xylene		0.42	ppbv	0.05	AC-058	06-Jul-21
21070004-001	p-Diethylbenzene	K, T, U	< 0.03	ppbv	0.03	AC-058	06-Jul-21
21070004-001	p-Ethyltoluene	K, T, U	< 0.06	ppbv	0.06	AC-058	06-Jul-21
21070004-001	Styrene		0.40	ppbv	0.06	AC-058	06-Jul-21

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>	
PRAMP_Reno-2021/06/30	29032	Ambient Air	29-Jun-21	16:50
<b>DESCRIPTION:</b>	NMHC Trigger			
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21	<b>VERSION:</b> Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-001	Tetrachloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Tetrahydrofuran	K, T, U	< 0.5 ppbv	0.5	AC-058	06-Jul-21
21070004-001	Toluene		0.53 ppbv	0.05	AC-058	06-Jul-21
21070004-001	trans-1,2-Dichloroethylene		31.4 ppbv	0.10	AC-058	06-Jul-21
21070004-001	trans-1,3-Dichloropropylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	trans-2-Butene	K, T, U	< 0.05 ppbv	0.05	AC-058	06-Jul-21
21070004-001	trans-2-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Trichloroethylene	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21
21070004-001	Vinyl acetate	K, T, U	< 0.5 ppbv	0.5	AC-058	06-Jul-21
21070004-001	Vinyl chloride	K, T, U	< 0.03 ppbv	0.03	AC-058	06-Jul-21

<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-2021/06/30-Blank	28968	Ambient Air	29-Jun-21 16:50
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
21070004	23-Jul-21		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-002	1-Butene	K, T, U	< 0.10 ppmv	0.10	NA-025	02-Jul-21
21070004-002	Acetylene	K, T, U	< 0.08 ppmv	0.08	NA-025	02-Jul-21
21070004-002	n-Butane	K, T, U	< 0.2 ppmv	0.2	NA-025	02-Jul-21
21070004-002	cis-2-Butene	K, T, U	< 0.04 ppmv	0.04	NA-025	02-Jul-21
21070004-002	Ethane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-002	Ethylacetylene	K, T, U	< 0.06 ppmv	0.06	NA-025	02-Jul-21
21070004-002	Ethylene	K, T, U	< 0.07 ppmv	0.07	NA-025	02-Jul-21
21070004-002	Isobutane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-002	Isobutylene	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-002	Methane	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-002	n-Propane	K, T, U	< 0.07 ppmv	0.07	NA-025	02-Jul-21
21070004-002	Propylene	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-002	Propyne	K, T, U	< 0.1 ppmv	0.1	NA-025	02-Jul-21
21070004-002	trans-2-Butene	K, T, U	< 0.09 ppmv	0.09	NA-025	02-Jul-21
21070004-002	2,5-Dimethylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	2-Ethylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-002	2-Methylthiophene	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-002	3-Methylthiophene	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	Carbon disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-002	Carbonyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	Dimethyl disulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-002	Dimethyl sulphide	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-002	Ethyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	Ethyl sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21

Report certified by: Rebecca Holgate, Account Coordinator

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

Date: July 23, 2021

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-2021/06/30-Blank	28968	Ambient Air	29-Jun-21 16:50
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21
		<b>VERSION:</b>	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-002	Hydrogen sulphide	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	Isobutyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	Isopropyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	Methyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-002	Pentyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-002	Propyl mercaptan	K, T, U	< 0.4 ppbv	0.4	NA-024	02-Jul-21
21070004-002	tert-Butyl mercaptan	K, T, U	< 0.3 ppbv	0.3	NA-024	02-Jul-21
21070004-002	Thiophene/sec-Butyl mercaptan	K, T, U	< 0.2 ppbv	0.2	NA-024	02-Jul-21
21070004-002	1,1,1-Trichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	1,1,2,2-Tetrachloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	1,1,2-Trichloroethane	I	0.04 ppbv	0.02	AC-058	05-Jul-21
21070004-002	1,1-Dichloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	1,1-Dichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	1,2,3-Trimethylbenzene	K, T, U	< 0.05 ppbv	0.05	AC-058	05-Jul-21
21070004-002	1,2,4-Trichlorobenzene	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	1,2,4-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	1,2-Dibromoethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	1,2-Dichlorobenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	1,2-Dichloroethane	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	1,2-Dichloropropane	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	1,3,5-Trimethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	1,3-Butadiene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	1,3-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	05-Jul-21
21070004-002	1,4-Dichlorobenzene	K, T, U	< 0.4 ppbv	0.4	AC-058	05-Jul-21
21070004-002	1,4-Dioxane	K, T, U	< 0.5 ppbv	0.5	AC-058	05-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-2021/06/30-Blank	28968	Ambient Air	29-Jun-21 16:50
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
21070004	23-Jul-21		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-002	1-Butene/Isobutylene	K, T, U	< 0.06 ppbv	0.06	AC-058	05-Jul-21
21070004-002	1-Hexene/2-Methyl-1-pentene	K, T, U	< 0.07 ppbv	0.07	AC-058	05-Jul-21
21070004-002	1-Pentene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	2,2,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	2,2-Dimethylbutane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	2,3,4-Trimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	2,3-Dimethylbutane	K, T, U	< 0.09 ppbv	0.09	AC-058	05-Jul-21
21070004-002	2,3-Dimethylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	2,4-Dimethylpentane	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	2-Methylheptane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	2-Methylhexane	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	2-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	3-Methylheptane	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	3-Methylhexane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	3-Methylpentane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Acetone	K, T, U	< 0.4 ppbv	0.4	AC-058	05-Jul-21
21070004-002	Acrolein	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Benzene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	Benzyl chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Bromodichloromethane	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	Bromoform	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Bromomethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Carbon disulfide	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Carbon tetrachloride	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Chlorobenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-2021/06/30-Blank	28968	Ambient Air	29-Jun-21 16:50
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
21070004	23-Jul-21		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-002	Chloroethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Chloroform	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Chloromethane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	cis-1,2-Dichloroethene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	cis-1,3-Dichloropropene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	cis-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	cis-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Cyclohexane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	Cyclopentane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Dibromochloromethane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Ethanol	K, T, U	< 0.5 ppbv	0.5	AC-058	05-Jul-21
21070004-002	Ethyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Ethylbenzene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	Freon-11	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Freon-113	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Freon-114	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	Freon-12	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	Hexachloro-1,3-butadiene	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Isobutane		0.27 ppbv	0.03	AC-058	05-Jul-21
21070004-002	Isopentane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	Isoprene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Isopropyl alcohol	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Isopropylbenzene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	m,p-Xylene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	m-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-2021/06/30-Blank	28968	Ambient Air	29-Jun-21 16:50
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	<b>REPORT CREATED:</b>	<b>VERSION:</b>	Version 01
21070004	23-Jul-21		

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-002	m-Ethyltoluene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	Methyl butyl ketone	K, T, U	< 0.4 ppbv	0.4	AC-058	05-Jul-21
21070004-002	Methyl ethyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Methyl isobutyl ketone	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Methyl methacrylate	K, T, U	< 0.08 ppbv	0.08	AC-058	05-Jul-21
21070004-002	Methyl tert butyl ether	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	Methylcyclohexane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Methylcyclopentane	K, T, U	< 0.05 ppbv	0.05	AC-058	05-Jul-21
21070004-002	Methylene chloride	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	n-Butane		0.17 ppbv	0.02	AC-058	05-Jul-21
21070004-002	n-Decane	K, T, U	< 0.06 ppbv	0.06	AC-058	05-Jul-21
21070004-002	n-Dodecane	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	n-Heptane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	n-Hexane	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	n-Octane	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	n-Pentane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	n-Propylbenzene	K, T, U	< 0.06 ppbv	0.06	AC-058	05-Jul-21
21070004-002	n-Undecane	K, T, U	< 0.5 ppbv	0.5	AC-058	05-Jul-21
21070004-002	Naphthalene	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	n-Nonane	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	o-Ethyltoluene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	o-Xylene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	p-Diethylbenzene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	p-Ethyltoluene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21
21070004-002	Styrene	K, T, U	< 0.04 ppbv	0.04	AC-058	05-Jul-21

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<b>CLIENT SAMPLE ID</b>	<b>CANISTER ID</b>	<b>Matrix</b>	<b>DATE SAMPLED</b>
PRAMP_Reno-2021/06/30-Blank	28968	Ambient Air	29-Jun-21 16:50
<b>DESCRIPTION:</b>	NMHC Blank		
<b>REPORT NUMBER:</b>	21070004	<b>REPORT CREATED:</b>	23-Jul-21
		<b>VERSION:</b>	Version 01

Lab ID	Parameter	Qualifier	Result Units	RDL	Method	Analysis Date
21070004-002	Tetrachloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Tetrahydrofuran	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Toluene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	trans-1,2-Dichloroethylene	K, T, U	< 0.06 ppbv	0.06	AC-058	05-Jul-21
21070004-002	trans-1,3-Dichloropropylene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	trans-2-Butene	K, T, U	< 0.03 ppbv	0.03	AC-058	05-Jul-21
21070004-002	trans-2-Pentene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Trichloroethylene	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21
21070004-002	Vinyl acetate	K, T, U	< 0.3 ppbv	0.3	AC-058	05-Jul-21
21070004-002	Vinyl chloride	K, T, U	< 0.02 ppbv	0.02	AC-058	05-Jul-21



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Canada T9C 1T4  
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## ENVIRONMENTAL ANALYTICAL SERVICES

### TEST REPORT

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### Revision History

Order ID	Ver	Date	Reason
21070004	01	23-Jul-21	Report created

## **Methods**

<b>Method</b>	<b>Description</b>
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

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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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### Order Comments





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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.*