Your P.O. #: P.O A222333
Your C.O.C. #: NA

Attention: Audrey Lewis

Antigua Distillery Ltd
PO BOX 149 Friars Hill Rd
St John's
Antigua, --
WestIndies

Report Date: 2025/11/10
Report #: R8647638
Version: 2 - Revision

CERTIFICATE OF ANALYSIS – REVISED REPORT

BUREAU VERITAS JOB #: C5B8159
Received: 2025/09/22, 15:04

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
ABN Compounds in Water by GC/MS	1	2025/09/25	2025/09/26	CAM SOP-00301	EPA 8270E m
Anions	1	N/A	2025/09/24	CAM SOP-00435	SM 24 4110 B m
Conductivity	1	N/A	2025/09/25	CAM SOP-00414	SM 24 2510 m
Fluoride	1	2025/09/23	2025/09/23	CAM SOP-00449	SM 24 4500-F C m
Metals Analysis by ICPMS (as received) (1)	1	N/A	2025/09/29	CAM SOP-00447	EPA 6020B m
Total Coliforms/ E. coli, CFU/100mL	1	N/A	2025/09/22	CAM SOP-00551	MECP-E3407
Heterotrophic plate count, (CFU/mL)	1	N/A	2025/09/22	CAM SOP-00512	SM 9215 B
Coliform/E.coli,(P-A/100 ml) (2)	1	N/A	2025/09/22	CAM SOP-00514	SM9221D,E,F
Nitrate & Nitrite as Nitrogen in Water (3)	1	N/A	2025/09/23	CAM SOP-00440	SM 24 4500-NO3I/NO2B
pH (4)	1	2025/09/24	2025/09/25	CAM SOP-00413	SM 24th - 4500H+ B
Orthophosphate	1	N/A	2025/09/23	CAM SOP-00461	SM 24 4500-P E
Total Dissolved Solids	1	2025/09/25	2025/09/26	CAM SOP-00428	SM 24 2540C m
Volatile Organic Compounds in Water	1	N/A	2025/09/24	CAM SOP-00226	EPA 8260D m

Remarks:

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, EPA, APHA or the Quebec Ministry of Environment.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Bureau Veritas 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.bvna.com

Your P.O. #: P.O A222333
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Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Metals analysis was performed on the sample 'as received'.
(2) Presence/absence test: P = Present, A = Absent
(3) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.
(4) "The CCME method and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) requires pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the CCME and Analytical Protocol (O. Reg 153/04, O. Reg. 406/19) holding time. Bureau Veritas endeavors to analyze samples as soon as possible after receipt."

Encryption Key

Nazeema Rahaman
Project Manager
10 Nov 2025 09:45:53

Please direct all questions regarding this Certificate of Analysis to:
Nazeema Rahaman, Project Manager
Email: Nazeema.Rahaman@bureauveritas.com
Phone# (905)817-5806

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Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

Bureau Veritas Job #: C5B8159
Report Date: 2025/11/10

Antigua Distillery Ltd
Your P.O. #: P.O A222333

RESULTS OF ANALYSES OF WATER

Bureau Veritas ID		AVKR05			AVKR05		
Sampling Date		2025/09/12			2025/09/12		
COC Number		NA			NA		
	UNITS	**23961300681 OASIS**	**RDL**	**QC Batch**	**23961300681 OASIS Lab-Dup**	**RDL**	**QC Batch**
Inorganics							
Conductivity	umho/cm	10	2.0	A017702	9.9	2.0	A017702
Total Dissolved Solids	mg/L	ND	10	A018978	ND	10	A018978
Fluoride (F-)	mg/L	ND	0.10	A017046			
Orthophosphate (P)	mg/L	ND	0.010	A016411			
pH	pH	6.30		A017707	6.31		A017707
Nitrite (N)	mg/L	ND	0.010	A016157			
Dissolved Chloride (Cl-)	mg/L	2.3	1.0	A017323			
Nitrate (N)	mg/L	ND	0.10	A016157			
Nitrate + Nitrite (N)	mg/L	ND	0.10	A016157			
Dissolved Bromide (Br-)	mg/L	ND	1.0	A017323			
Dissolved Sulphate (SO4)	mg/L	ND	1.0	A017323			

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
Lab-Dup = Laboratory Initiated Duplicate
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Bureau Veritas ID		AVKR05		
Sampling Date		2025/09/12		
COC Number		NA		
	UNITS	**23961300681 OASIS**	**RDL**	**QC Batch**
Metals				
Aluminum (Al)	ug/L	ND	4.9	A020442
Antimony (Sb)	ug/L	ND	0.50	A020442
Arsenic (As)	ug/L	ND	1.0	A020442
Barium (Ba)	ug/L	ND	2.0	A020442
Beryllium (Be)	ug/L	ND	0.40	A020442
Bismuth (Bi)	ug/L	ND	1.0	A020442
Boron (B)	ug/L	940	10	A020442
Cadmium (Cd)	ug/L	ND	0.090	A020442
Calcium (Ca)	ug/L	ND	200	A020442
Chromium (Cr)	ug/L	ND	5.0	A020442
Cobalt (Co)	ug/L	ND	0.50	A020442
Copper (Cu)	ug/L	ND	0.90	A020442
Iron (Fe)	ug/L	ND	100	A020442
Lead (Pb)	ug/L	ND	0.50	A020442
Lithium (Li)	ug/L	ND	5.0	A020442
Magnesium (Mg)	ug/L	ND	50	A020442
Manganese (Mn)	ug/L	ND	2.0	A020442
Molybdenum (Mo)	ug/L	ND	0.50	A020442
Nickel (Ni)	ug/L	ND	1.0	A020442
Phosphorus (P)	ug/L	ND	100	A020442
Potassium (K)	ug/L	ND	200	A020442
Selenium (Se)	ug/L	ND	2.0	A020442
Silicon (Si)	ug/L	ND	50	A020442
Silver (Ag)	ug/L	0.16	0.090	A020442
Sodium (Na)	ug/L	1600	100	A020442
Strontium (Sr)	ug/L	ND	1.0	A020442
Tellurium (Te)	ug/L	ND	1.0	A020442
Thallium (Tl)	ug/L	ND	0.050	A020442
Tin (Sn)	ug/L	ND	1.0	A020442
Titanium (Ti)	ug/L	ND	5.0	A020442
Tungsten (W)	ug/L	ND	1.0	A020442
Uranium (U)	ug/L	ND	0.10	A020442
Vanadium (V)	ug/L	ND	0.50	A020442
Zinc (Zn)	ug/L	ND	5.0	A020442
Zirconium (Zr)	ug/L	ND	1.0	A020442

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QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		AVKR05		
Sampling Date		2025/09/12		
COC Number		NA		
	UNITS	**23961300681 OASIS**	**RDL**	**QC Batch**
Semivolatile Organics				
Acenaphthene	ug/L	ND	0.20	A018464
Acenaphthylene	ug/L	ND	0.20	A018464
Anthracene	ug/L	ND	0.20	A018464
Benzo(a)anthracene	ug/L	ND	0.20	A018464
Benzo(a)pyrene	ug/L	ND	0.20	A018464
Benzo(b/j)fluoranthene	ug/L	ND	0.20	A018464
Benzo(g,h,i)perylene	ug/L	ND	0.20	A018464
Benzo(k)fluoranthene	ug/L	ND	0.20	A018464
1-Chloronaphthalene	ug/L	ND	1.0	A018464
2-Chloronaphthalene	ug/L	ND	0.50	A018464
Chrysene	ug/L	ND	0.20	A018464
Dibenzo(a,h)anthracene	ug/L	ND	0.20	A018464
Fluoranthene	ug/L	ND	0.20	A018464
Fluorene	ug/L	ND	0.20	A018464
Indeno(1,2,3-cd)pyrene	ug/L	ND	0.20	A018464
1-Methylnaphthalene	ug/L	ND	0.20	A018464
2-Methylnaphthalene	ug/L	ND	0.20	A018464
Naphthalene	ug/L	ND	0.20	A018464
Perylene	ug/L	ND	0.20	A018464
Phenanthrene	ug/L	ND	0.20	A018464
Pyrene	ug/L	ND	0.20	A018464
1,2-Dichlorobenzene	ug/L	ND	0.50	A018464
1,3-Dichlorobenzene	ug/L	ND	0.50	A018464
1,4-Dichlorobenzene	ug/L	ND	0.50	A018464
Hexachlorobenzene	ug/L	ND	0.50	A018464
Pentachlorobenzene	ug/L	ND	0.50	A018464
1,2,3,5-Tetrachlorobenzene	ug/L	ND	0.50	A018464
1,2,4,5-Tetrachlorobenzene	ug/L	ND	0.50	A018464
1,2,3-Trichlorobenzene	ug/L	ND	0.50	A018464
1,2,4-Trichlorobenzene	ug/L	ND	0.50	A018464
1,3,5-Trichlorobenzene	ug/L	ND	0.50	A018464
2-Chlorophenol	ug/L	ND	0.30	A018464
4-Chloro-3-Methylphenol	ug/L	ND	0.50	A018464
m/p-Cresol	ug/L	ND	0.50	A018464
o-Cresol	ug/L	ND	0.50	A018464

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		AVKR05		
Sampling Date		2025/09/12		
COC Number		NA		
	UNITS	**23961300681 OASIS**	**RDL**	**QC Batch**
1,2,3,4-Tetrachlorobenzene	ug/L	ND	0.50	A018464
2,3-Dichlorophenol	ug/L	ND	0.50	A018464
2,4-Dichlorophenol	ug/L	ND	0.30	A018464
2,5-Dichlorophenol	ug/L	ND	0.50	A018464
2,6-Dichlorophenol	ug/L	ND	0.50	A018464
3,4-Dichlorophenol	ug/L	ND	0.50	A018464
3,5-Dichlorophenol	ug/L	ND	0.50	A018464
2,4-Dimethylphenol	ug/L	ND	0.50	A018464
2,4-Dinitrophenol	ug/L	ND	2.0	A018464
4,6-Dinitro-2-methylphenol	ug/L	ND	2.0	A018464
2-Nitrophenol	ug/L	ND	0.50	A018464
4-Nitrophenol	ug/L	ND	1.4	A018464
Pentachlorophenol	ug/L	ND	1.0	A018464
Phenol	ug/L	ND	0.50	A018464
2,3,4,5-Tetrachlorophenol	ug/L	ND	0.40	A018464
2,3,4,6-Tetrachlorophenol	ug/L	ND	0.50	A018464
2,3,5,6-Tetrachlorophenol	ug/L	ND	0.50	A018464
2,3,4-Trichlorophenol	ug/L	ND	0.50	A018464
2,3,5-Trichlorophenol	ug/L	ND	0.50	A018464
2,3,6-Trichlorophenol	ug/L	ND	0.50	A018464
2,4,5-Trichlorophenol	ug/L	ND	0.50	A018464
2,4,6-Trichlorophenol	ug/L	ND	0.50	A018464
3,4,5-Trichlorophenol	ug/L	ND	0.50	A018464
Benzyl butyl phthalate	ug/L	ND	0.50	A018464
Biphenyl	ug/L	ND	0.50	A018464
Bis(2-chloroethyl)ether	ug/L	ND	0.50	A018464
Bis(2-chloroethoxy)methane	ug/L	ND	0.50	A018464
Bis(2-chloroisopropyl)ether	ug/L	ND	0.50	A018464
Bis(2-ethylhexyl)phthalate	ug/L	ND	2.0	A018464
4-Bromophenyl phenyl ether	ug/L	ND	0.30	A018464
p-Chloroaniline	ug/L	ND	1.0	A018464
4-Chlorophenyl phenyl ether	ug/L	ND	0.50	A018464
Di-N-butyl phthalate	ug/L	ND	2.0	A018464
di-n-octyl phthalate	ug/L	ND	0.80	A018464
2,4-Dinitrotoluene	ug/L	ND	0.50	A018464
Diethyl phthalate	ug/L	ND	1.0	A018464

RDL = Reportable Detection Limit
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ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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SEMI-VOLATILE ORGANICS BY GC-MS (WATER)

Bureau Veritas ID		AVKR05		
Sampling Date		2025/09/12		
COC Number		NA		
	UNITS	**23961300681 OASIS**	**RDL**	**QC Batch**
3,3'-Dichlorobenzidine	ug/L	ND	0.50	A018464
Dimethyl phthalate	ug/L	ND	1.0	A018464
2,6-Dinitrotoluene	ug/L	ND	0.50	A018464
Diphenyl Ether	ug/L	ND	0.30	A018464
Hexachlorobutadiene	ug/L	ND	0.40	A018464
Hexachlorocyclopentadiene	ug/L	ND	2.0	A018464
Hexachloroethane	ug/L	ND	0.50	A018464
Isophorone	ug/L	ND	0.50	A018464
Nitrobenzene	ug/L	ND	0.50	A018464
Nitrosodiphenylamine/Diphenylamine	ug/L	ND	1.0	A018464
N-Nitroso-di-n-propylamine	ug/L	ND	0.50	A018464
Surrogate Recovery (%)				
2,4,6-Tribromophenol	%	85		A018464
2-Fluorobiphenyl	%	75		A018464
2-Fluorophenol	%	34		A018464
D14-Terphenyl	%	80		A018464
D5-Nitrobenzene	%	70		A018464
D5-Phenol	%	21		A018464

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VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		AVKR05		
Sampling Date		2025/09/12		
COC Number		NA		
	UNITS	**23961300681 OASIS**	**RDL**	**QC Batch**
Volatile Organics				
Acetone (2-Propanone)	ug/L	ND	10	A015427
Benzene	ug/L	ND	0.10	A015427
Bromodichloromethane	ug/L	ND	0.10	A015427
Bromoform	ug/L	ND	0.20	A015427
Bromomethane	ug/L	ND	0.50	A015427
Carbon Tetrachloride	ug/L	ND	0.10	A015427
Chlorobenzene	ug/L	ND	0.10	A015427
Chloroform	ug/L	ND	0.10	A015427
Dibromochloromethane	ug/L	ND	0.20	A015427
1,2-Dichlorobenzene	ug/L	ND	0.20	A015427
1,3-Dichlorobenzene	ug/L	ND	0.20	A015427
1,4-Dichlorobenzene	ug/L	ND	0.20	A015427
Dichlorodifluoromethane (FREON 12)	ug/L	ND	0.50	A015427
1,1-Dichloroethane	ug/L	ND	0.10	A015427
1,2-Dichloroethane	ug/L	ND	0.20	A015427
1,1-Dichloroethylene	ug/L	ND	0.10	A015427
cis-1,2-Dichloroethylene	ug/L	ND	0.10	A015427
trans-1,2-Dichloroethylene	ug/L	ND	0.10	A015427
1,2-Dichloropropane	ug/L	ND	0.10	A015427
cis-1,3-Dichloropropene	ug/L	ND	0.20	A015427
trans-1,3-Dichloropropene	ug/L	ND	0.20	A015427
Ethylbenzene	ug/L	ND	0.10	A015427
Ethylene Dibromide	ug/L	ND	0.20	A015427
Hexane	ug/L	ND	0.50	A015427
Methylene Chloride(Dichloromethane)	ug/L	ND	0.50	A015427
Methyl Ethyl Ketone (2-Butanone)	ug/L	ND	5.0	A015427
Methyl Isobutyl Ketone	ug/L	ND	5.0	A015427
Methyl t-butyl ether (MTBE)	ug/L	ND	0.20	A015427
Styrene	ug/L	ND	0.20	A015427
1,1,1,2-Tetrachloroethane	ug/L	ND	0.20	A015427
1,1,2,2-Tetrachloroethane	ug/L	ND	0.20	A015427
Tetrachloroethylene	ug/L	ND	0.10	A015427
Toluene	ug/L	ND	0.20	A015427
1,1,1-Trichloroethane	ug/L	ND	0.10	A015427
1,1,2-Trichloroethane	ug/L	ND	0.20	A015427

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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VOLATILE ORGANICS BY GC/MS (WATER)

Bureau Veritas ID		AVKR05		
Sampling Date		2025/09/12		
COC Number		NA		
	UNITS	**23961300681 OASIS**	**RDL**	**QC Batch**
Trichloroethylene	ug/L	ND	0.10	A015427
Trichlorofluoromethane (FREON 11)	ug/L	ND	0.20	A015427
Vinyl Chloride	ug/L	ND	0.20	A015427
p+m-Xylene	ug/L	ND	0.10	A015427
o-Xylene	ug/L	ND	0.10	A015427
Total Xylenes	ug/L	ND	0.10	A015427
Surrogate Recovery (%)				
4-Bromofluorobenzene	%	99		A015427
D4-1,2-Dichloroethane	%	98		A015427
D8-Toluene	%	98		A015427

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch
ND = Not Detected at a concentration equal or greater than the indicated Detection Limit.

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MICROBIOLOGY (WATER)

Bureau Veritas ID		AVKR05	
Sampling Date		2025/09/12	
COC Number		NA	
	UNITS	**23961300681 OASIS**	**QC Batch**
Microbiological			
Escherichia coli	P-A/100mL	A	A016131
Heterotrophic plate count	CFU/mL	0	A016127
Total Coliforms	P-A/100mL	A	A016131
Background	CFU/100mL	0	A016119
Total Coliforms	CFU/100mL	0	A016119
Escherichia coli	CFU/100mL	0	A016119
QC Batch = Quality Control Batch			

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GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	24.0°C

Revised Report (2025/11/10): P.O Number included in this CofA.

Sample(s) received at a temperature above 10 C. Analysis performed with client's consent.
Sample(s) were submitted using a container that was not provided by Bureau Veritas. Analysis performed with client's consent.
Analysis: Sample(s) analyzed past hold time. Analysis performed with client's consent

Results relate only to the items tested.

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QUALITY ASSURANCE REPORT

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A015427	4-Bromofluorobenzene	2025/09/24	103	70 - 130	101	70 - 130	96	%		
A015427	D4-1,2-Dichloroethane	2025/09/24	98	70 - 130	96	70 - 130	97	%		
A015427	D8-Toluene	2025/09/24	102	70 - 130	99	70 - 130	96	%		
A018464	2,4,6-Tribromophenol	2025/09/25	91	10 - 130	105	10 - 130	78	%		
A018464	2-Fluorobiphenyl	2025/09/25	44	30 - 130	74	30 - 130	81	%		
A018464	2-Fluorophenol	2025/09/25	23	10 - 130	45	10 - 130	29	%		
A018464	D14-Terphenyl	2025/09/25	72	30 - 130	85	30 - 130	78	%		
A018464	D5-Nitrobenzene	2025/09/25	46	30 - 130	83	30 - 130	82	%		
A018464	D5-Phenol	2025/09/25	14	10 - 130	26	10 - 130	22	%		
A015427	1,1,1,2-Tetrachloroethane	2025/09/24	112	70 - 130	101	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	1,1,1-Trichloroethane	2025/09/24	107	70 - 130	92	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	1,1,2,2-Tetrachloroethane	2025/09/24	97	70 - 130	86	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	1,1,2-Trichloroethane	2025/09/24	104	70 - 130	88	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	1,1-Dichloroethane	2025/09/24	96	70 - 130	84	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	1,1-Dichloroethylene	2025/09/24	105	70 - 130	90	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	1,2-Dichlorobenzene	2025/09/24	104	70 - 130	96	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	1,2-Dichloroethane	2025/09/24	104	70 - 130	90	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	1,2-Dichloropropane	2025/09/24	101	70 - 130	90	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	1,3-Dichlorobenzene	2025/09/24	110	70 - 130	98	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	1,4-Dichlorobenzene	2025/09/24	109	70 - 130	98	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	Acetone (2-Propanone)	2025/09/24	92	60 - 140	81	60 - 140	ND, RDL=10	ug/L	NC	30
A015427	Benzene	2025/09/24	104	70 - 130	92	70 - 130	ND, RDL=0.10	ug/L	3.8	30
A015427	Bromodichloromethane	2025/09/24	102	70 - 130	90	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	Bromoform	2025/09/24	109	70 - 130	100	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	Bromomethane	2025/09/24	88	60 - 140	82	60 - 140	ND, RDL=0.50	ug/L	NC	30
A015427	Carbon Tetrachloride	2025/09/24	113	70 - 130	99	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	Chlorobenzene	2025/09/24	97	70 - 130	86	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	Chloroform	2025/09/24	103	70 - 130	90	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	cis-1,2-Dichloroethylene	2025/09/24	108	70 - 130	98	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	cis-1,3-Dichloropropene	2025/09/24	101	70 - 130	92	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	Dibromochloromethane	2025/09/24	109	70 - 130	99	70 - 130	ND, RDL=0.20	ug/L	NC	30

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A015427	Dichlorodifluoromethane (FREON 12)	2025/09/24	102	60 - 140	86	60 - 140	ND, RDL=0.50	ug/L	NC	30
A015427	Ethylbenzene	2025/09/24	NC	70 - 130	92	70 - 130	ND, RDL=0.10	ug/L	5.6	30
A015427	Ethylene Dibromide	2025/09/24	105	70 - 130	94	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	Hexane	2025/09/24	106	70 - 130	97	70 - 130	ND, RDL=0.50	ug/L	NC	30
A015427	Methyl Ethyl Ketone (2-Butanone)	2025/09/24	102	60 - 140	88	60 - 140	ND, RDL=5.0	ug/L	NC	30
A015427	Methyl Isobutyl Ketone	2025/09/24	101	70 - 130	89	70 - 130	ND, RDL=5.0	ug/L	NC	30
A015427	Methyl t-butyl ether (MTBE)	2025/09/24	109	70 - 130	95	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	Methylene Chloride(Dichloromethane)	2025/09/24	99	70 - 130	90	70 - 130	ND, RDL=0.50	ug/L	NC	30
A015427	o-Xylene	2025/09/24	NC	70 - 130	100	70 - 130	ND, RDL=0.10	ug/L	5.3	30
A015427	p+m-Xylene	2025/09/24	NC	70 - 130	95	70 - 130	ND, RDL=0.10	ug/L	6.9	30
A015427	Styrene	2025/09/24	109	70 - 130	97	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	Tetrachloroethylene	2025/09/24	101	70 - 130	89	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	Toluene	2025/09/24	NC	70 - 130	91	70 - 130	ND, RDL=0.20	ug/L	3.2	30
A015427	Total Xylenes	2025/09/24					ND, RDL=0.10	ug/L	6.4	30
A015427	trans-1,2-Dichloroethylene	2025/09/24	106	70 - 130	96	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	trans-1,3-Dichloropropene	2025/09/24	110	70 - 130	99	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	Trichloroethylene	2025/09/24	107	70 - 130	96	70 - 130	ND, RDL=0.10	ug/L	NC	30
A015427	Trichlorofluoromethane (FREON 11)	2025/09/24	102	70 - 130	86	70 - 130	ND, RDL=0.20	ug/L	NC	30
A015427	Vinyl Chloride	2025/09/24	100	70 - 130	84	70 - 130	ND, RDL=0.20	ug/L	NC	30
A016157	Nitrate (N)	2025/09/23	97	80 - 120	97	80 - 120	ND, RDL=0.10	mg/L	1.1	20
A016157	Nitrite (N)	2025/09/23	105	80 - 120	106	80 - 120	ND, RDL=0.010	mg/L	NC	20
A016411	Orthophosphate (P)	2025/09/23	98	75 - 125	95	80 - 120	ND, RDL=0.010	mg/L	NC	20
A017046	Fluoride (F-)	2025/09/23	94	80 - 120	95	80 - 120	ND, RDL=0.10	mg/L	1.9	20
A017323	Dissolved Bromide (Br-)	2025/09/24	101	80 - 120	100	80 - 120	ND, RDL=1.0	mg/L	NC	20
A017323	Dissolved Chloride (Cl-)	2025/09/24	100	80 - 120	99	70 - 130	ND, RDL=1.0	mg/L	0.24	20
A017323	Dissolved Sulphate (SO4)	2025/09/24	100	80 - 120	98	80 - 120	ND, RDL=1.0	mg/L	0.22	20
A017702	Conductivity	2025/09/25			103	85 - 115	ND, RDL=2.0	umho/cm	1.5	10
A017707	pH	2025/09/25			102	98 - 103			0.029	N/A
A018464	1,2,3,4-Tetrachlorobenzene	2025/09/25	39	30 - 130	57	30 - 130	ND, RDL=0.50	ug/L		
A018464	1,2,3,5-Tetrachlorobenzene	2025/09/25	36	30 - 130	55	30 - 130	ND, RDL=0.50	ug/L		
A018464	1,2,3-Trichlorobenzene	2025/09/25	37	30 - 130	59	30 - 130	ND, RDL=0.50	ug/L		

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A018464	1,2,4,5-Tetrachlorobenzene	2025/09/25	34	30 - 130	53	30 - 130	ND, RDL=0.50	ug/L		
A018464	1,2,4-Trichlorobenzene	2025/09/25	40	30 - 130	62	30 - 130	ND, RDL=0.50	ug/L		
A018464	1,2-Dichlorobenzene	2025/09/25	35	30 - 130	55	30 - 130	ND, RDL=0.50	ug/L		
A018464	1,3,5-Trichlorobenzene	2025/09/25	46	30 - 130	76	30 - 130	ND, RDL=0.50	ug/L		
A018464	1,3-Dichlorobenzene	2025/09/25	34	30 - 130	53	30 - 130	ND, RDL=0.50	ug/L		
A018464	1,4-Dichlorobenzene	2025/09/25	34	30 - 130	52	30 - 130	ND, RDL=0.50	ug/L		
A018464	1-Chloronaphthalene	2025/09/25	42	30 - 130	72	30 - 130	ND, RDL=1.0	ug/L		
A018464	1-Methylnaphthalene	2025/09/25	50	30 - 130	76	30 - 130	ND, RDL=0.20	ug/L		
A018464	2,3,4,5-Tetrachlorophenol	2025/09/25	92	10 - 130	118	10 - 130	ND, RDL=0.40	ug/L		
A018464	2,3,4,6-Tetrachlorophenol	2025/09/25	81	10 - 130	92	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,3,4-Trichlorophenol	2025/09/25	75	10 - 130	98	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,3,5,6-Tetrachlorophenol	2025/09/25	79	10 - 130	101	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,3,5-Trichlorophenol	2025/09/25	74	10 - 130	100	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,3,6-Trichlorophenol	2025/09/25	69	10 - 130	99	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,3-Dichlorophenol	2025/09/25	55	10 - 130	94	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,4,5-Trichlorophenol	2025/09/25	70	10 - 130	94	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,4,6-Trichlorophenol	2025/09/25	61	10 - 130	93	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,4-Dichlorophenol	2025/09/25	52	10 - 130	95	10 - 130	ND, RDL=0.30	ug/L		
A018464	2,4-Dimethylphenol	2025/09/25	55	10 - 130	57	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,4-Dinitrophenol	2025/09/25	65	10 - 130	83	10 - 130	ND, RDL=2.0	ug/L		
A018464	2,4-Dinitrotoluene	2025/09/25	77	30 - 130	100	30 - 130	ND, RDL=0.50	ug/L		
A018464	2,5-Dichlorophenol	2025/09/25	53	10 - 130	84	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,6-Dichlorophenol	2025/09/25	53	10 - 130	95	10 - 130	ND, RDL=0.50	ug/L		
A018464	2,6-Dinitrotoluene	2025/09/25	66	30 - 130	92	30 - 130	ND, RDL=0.50	ug/L		
A018464	2-Chloronaphthalene	2025/09/25	45	30 - 130	65	30 - 130	ND, RDL=0.50	ug/L		
A018464	2-Chlorophenol	2025/09/25	46	10 - 130	82	10 - 130	ND, RDL=0.30	ug/L		
A018464	2-Methylnaphthalene	2025/09/25	50	30 - 130	76	30 - 130	ND, RDL=0.20	ug/L		
A018464	2-Nitrophenol	2025/09/25	57	10 - 130	99	10 - 130	ND, RDL=0.50	ug/L		
A018464	3,3'-Dichlorobenzidine	2025/09/25	NC	30 - 130	100	30 - 130	ND, RDL=0.50	ug/L		
A018464	3,4,5-Trichlorophenol	2025/09/25	102	10 - 130	101	10 - 130	ND, RDL=0.50	ug/L		
A018464	3,4-Dichlorophenol	2025/09/25	82	10 - 130	94	10 - 130	ND, RDL=0.50	ug/L		

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QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A018464	3,5-Dichlorophenol	2025/09/25	80	10 - 130	95	10 - 130	ND, RDL=0.50	ug/L		
A018464	4,6-Dinitro-2-methylphenol	2025/09/25	81	10 - 130	103	10 - 130	ND, RDL=2.0	ug/L		
A018464	4-Bromophenyl phenyl ether	2025/09/25	80	30 - 130	98	30 - 130	ND, RDL=0.30	ug/L		
A018464	4-Chloro-3-Methylphenol	2025/09/25	66	10 - 130	91	10 - 130	ND, RDL=0.50	ug/L		
A018464	4-Chlorophenyl phenyl ether	2025/09/25	68	30 - 130	86	30 - 130	ND, RDL=0.50	ug/L		
A018464	4-Nitrophenol	2025/09/25	18	10 - 130	26	10 - 130	ND, RDL=1.4	ug/L		
A018464	Acenaphthene	2025/09/25	52	30 - 130	79	30 - 130	ND, RDL=0.20	ug/L		
A018464	Acenaphthylene	2025/09/25	52	30 - 130	81	30 - 130	ND, RDL=0.20	ug/L		
A018464	Anthracene	2025/09/25	84	30 - 130	104	30 - 130	ND, RDL=0.20	ug/L		
A018464	Benzo(a)anthracene	2025/09/25	79	30 - 130	91	30 - 130	ND, RDL=0.20	ug/L		
A018464	Benzo(a)pyrene	2025/09/25	98	30 - 130	96	30 - 130	ND, RDL=0.20	ug/L		
A018464	Benzo(b/j)fluoranthene	2025/09/25	99	30 - 130	100	30 - 130	ND, RDL=0.20	ug/L		
A018464	Benzo(g,h,i)perylene	2025/09/25	71	30 - 130	116	30 - 130	ND, RDL=0.20	ug/L		
A018464	Benzo(k)fluoranthene	2025/09/25	96	30 - 130	94	30 - 130	ND, RDL=0.20	ug/L		
A018464	Benzyl butyl phthalate	2025/09/25	94	30 - 130	108	30 - 130	ND, RDL=0.50	ug/L		
A018464	Biphenyl	2025/09/25	47	30 - 130	70	30 - 130	ND, RDL=0.50	ug/L		
A018464	Bis(2-chloroethoxy)methane	2025/09/25	55	30 - 130	98	30 - 130	ND, RDL=0.50	ug/L		
A018464	Bis(2-chloroethyl)ether	2025/09/25	54	30 - 130	96	30 - 130	ND, RDL=0.50	ug/L		
A018464	Bis(2-chloroisopropyl)ether	2025/09/25	44	30 - 130	79	30 - 130	ND, RDL=0.50	ug/L		
A018464	Bis(2-ethylhexyl)phthalate	2025/09/25	108	30 - 130	124	30 - 130	ND, RDL=2.0	ug/L	NC	40
A018464	Chrysene	2025/09/25	83	30 - 130	97	30 - 130	ND, RDL=0.20	ug/L		
A018464	Dibenzo(a,h)anthracene	2025/09/25	82	30 - 130	117	30 - 130	ND, RDL=0.20	ug/L		
A018464	Diethyl phthalate	2025/09/25	81	30 - 130	104	30 - 130	ND, RDL=1.0	ug/L		
A018464	Dimethyl phthalate	2025/09/25	76	30 - 130	110	30 - 130	ND, RDL=1.0	ug/L		
A018464	Di-N-butyl phthalate	2025/09/25	113	30 - 130	128	30 - 130	ND, RDL=2.0	ug/L	NC	40
A018464	di-n-octyl phthalate	2025/09/25	107	30 - 130	97	30 - 130	ND, RDL=0.80	ug/L		
A018464	Diphenyl Ether	2025/09/25	51	30 - 130	76	30 - 130	ND, RDL=0.30	ug/L		
A018464	Fluoranthene	2025/09/25	101	30 - 130	103	30 - 130	ND, RDL=0.20	ug/L		
A018464	Fluorene	2025/09/25	62	30 - 130	89	30 - 130	ND, RDL=0.20	ug/L		
A018464	Hexachlorobenzene	2025/09/25	75	30 - 130	102	30 - 130	ND, RDL=0.50	ug/L		
A018464	Hexachlorobutadiene	2025/09/25	35	30 - 130	62	30 - 130	ND, RDL=0.40	ug/L		

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QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A018464	Hexachlorocyclopentadiene	2025/09/25	37	30 - 130	59	30 - 130	ND, RDL=2.0	ug/L		
A018464	Hexachloroethane	2025/09/25	33	30 - 130	59	30 - 130	ND, RDL=0.50	ug/L		
A018464	Indeno(1,2,3-cd)pyrene	2025/09/25	78	30 - 130	119	30 - 130	ND, RDL=0.20	ug/L		
A018464	Isophorone	2025/09/25	45	30 - 130	81	30 - 130	ND, RDL=0.50	ug/L		
A018464	m/p-Cresol	2025/09/25	29	10 - 130	48	10 - 130	ND, RDL=0.50	ug/L		
A018464	Naphthalene	2025/09/25	42	30 - 130	67	30 - 130	ND, RDL=0.20	ug/L		
A018464	Nitrobenzene	2025/09/25	50	30 - 130	84	30 - 130	ND, RDL=0.50	ug/L		
A018464	Nitrosodiphenylamine/Diphenylamine	2025/09/25	66	30 - 130	104	30 - 130	ND, RDL=1.0	ug/L		
A018464	N-Nitroso-di-n-propylamine	2025/09/25	43	30 - 130	79	30 - 130	ND, RDL=0.50	ug/L		
A018464	o-Cresol	2025/09/25	34	10 - 130	58	10 - 130	ND, RDL=0.50	ug/L		
A018464	p-Chloroaniline	2025/09/25	NC	30 - 130	60	30 - 130	ND, RDL=1.0	ug/L		
A018464	Pentachlorobenzene	2025/09/25	45	30 - 130	53	30 - 130	ND, RDL=0.50	ug/L		
A018464	Pentachlorophenol	2025/09/25	96	10 - 130	99	10 - 130	ND, RDL=1.0	ug/L		
A018464	Perylene	2025/09/25	90	30 - 130	103	30 - 130	ND, RDL=0.20	ug/L		
A018464	Phenanthrene	2025/09/25	81	30 - 130	97	30 - 130	ND, RDL=0.20	ug/L		
A018464	Phenol	2025/09/25	16	10 - 130	29	10 - 130	ND, RDL=0.50	ug/L		
A018464	Pyrene	2025/09/25	81	30 - 130	94	30 - 130	ND, RDL=0.20	ug/L		
A018978	Total Dissolved Solids	2025/09/26			98	80 - 120	ND, RDL=10	mg/L	NC	20
A020442	Aluminum (Al)	2025/09/29	105	80 - 120	100	80 - 120	ND, RDL=4.9	ug/L	NC	20
A020442	Antimony (Sb)	2025/09/29	105	80 - 120	107	80 - 120	ND, RDL=0.50	ug/L	0.12	20
A020442	Arsenic (As)	2025/09/29	101	80 - 120	100	80 - 120	ND, RDL=1.0	ug/L	NC	20
A020442	Barium (Ba)	2025/09/29	101	80 - 120	103	80 - 120	ND, RDL=2.0	ug/L	0.21	20
A020442	Beryllium (Be)	2025/09/29	108	80 - 120	109	80 - 120	ND, RDL=0.40	ug/L	NC	20
A020442	Bismuth (Bi)	2025/09/29	96	80 - 120	98	80 - 120	ND, RDL=1.0	ug/L	NC	20
A020442	Boron (B)	2025/09/29	102	80 - 120	109	80 - 120	ND, RDL=10	ug/L	1.3	20
A020442	Cadmium (Cd)	2025/09/29	103	80 - 120	105	80 - 120	ND, RDL=0.090	ug/L	NC	20
A020442	Calcium (Ca)	2025/09/29	NC	80 - 120	97	80 - 120	ND, RDL=200	ug/L	3.2	20
A020442	Chromium (Cr)	2025/09/29	99	80 - 120	98	80 - 120	ND, RDL=5.0	ug/L	NC	20
A020442	Cobalt (Co)	2025/09/29	98	80 - 120	100	80 - 120	ND, RDL=0.50	ug/L	NC	20
A020442	Copper (Cu)	2025/09/29	104	80 - 120	108	80 - 120	ND, RDL=0.90	ug/L	NC	20
A020442	Iron (Fe)	2025/09/29	97	80 - 120	98	80 - 120	ND, RDL=100	ug/L	NC	20

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QUALITY ASSURANCE REPORT(CONT'D)

			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A020442	Lead (Pb)	2025/09/29	99	80 - 120	101	80 - 120	ND, RDL=0.50	ug/L	NC	20
A020442	Lithium (Li)	2025/09/29	97	80 - 120	101	80 - 120	ND, RDL=5.0	ug/L	4.8	20
A020442	Magnesium (Mg)	2025/09/29	94	80 - 120	95	80 - 120	ND, RDL=50	ug/L	0.21	20
A020442	Manganese (Mn)	2025/09/29	95	80 - 120	96	80 - 120	ND, RDL=2.0	ug/L	NC	20
A020442	Molybdenum (Mo)	2025/09/29	103	80 - 120	104	80 - 120	ND, RDL=0.50	ug/L	0.89	20
A020442	Nickel (Ni)	2025/09/29	94	80 - 120	95	80 - 120	ND, RDL=1.0	ug/L	NC	20
A020442	Phosphorus (P)	2025/09/29	107	80 - 120	107	80 - 120	ND, RDL=100	ug/L	NC	20
A020442	Potassium (K)	2025/09/29	99	80 - 120	102	80 - 120	ND, RDL=200	ug/L	0.49	20
A020442	Selenium (Se)	2025/09/29	103	80 - 120	97	80 - 120	ND, RDL=2.0	ug/L	NC	20
A020442	Silicon (Si)	2025/09/29	99	80 - 120	96	80 - 120	ND, RDL=50	ug/L	2.4	20
A020442	Silver (Ag)	2025/09/29	99	80 - 120	101	80 - 120	ND, RDL=0.090	ug/L	NC	20
A020442	Sodium (Na)	2025/09/29	96	80 - 120	97	80 - 120	ND, RDL=100	ug/L	1.1	20
A020442	Strontium (Sr)	2025/09/29	96	80 - 120	93	80 - 120	ND, RDL=1.0	ug/L	0.97	20
A020442	Tellurium (Te)	2025/09/29	100	80 - 120	103	80 - 120	ND, RDL=1.0	ug/L	NC	20
A020442	Thallium (Tl)	2025/09/29	98	80 - 120	99	80 - 120	ND, RDL=0.050	ug/L	NC	20
A020442	Tin (Sn)	2025/09/29	103	80 - 120	103	80 - 120	ND, RDL=1.0	ug/L	NC	20
A020442	Titanium (Ti)	2025/09/29	104	80 - 120	99	80 - 120	ND, RDL=5.0	ug/L	NC	20
A020442	Tungsten (W)	2025/09/29	101	80 - 120	102	80 - 120	ND, RDL=1.0	ug/L	NC	20
A020442	Uranium (U)	2025/09/29	99	80 - 120	100	80 - 120	ND, RDL=0.10	ug/L	NC	20
A020442	Vanadium (V)	2025/09/29	98	80 - 120	96	80 - 120	ND, RDL=0.50	ug/L	NC	20
A020442	Zinc (Zn)	2025/09/29	98	80 - 120	98	80 - 120	ND, RDL=5.0	ug/L	NC	20

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			Matrix Spike		SPIKED BLANK		Method Blank		RPD	
QC Batch	Parameter	Date	% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
A020442	Zirconium (Zr)	2025/09/29	104	80 - 120	106	80 - 120	ND, RDL=1.0	ug/L	NC	20

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Amlin Antony, Analyst 1

Brad Newman, B.Sc., C.Chem., Scientific Service Specialist

Cristina Carriere, Senior Scientific Specialist

Bureau Veritas has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation, please refer to the Validation Signatures page if included, otherwise available by request. For Department specific Analyst/Supervisor validation names, please refer to the Test Summary section if included, otherwise available by request. This report is authorized by Rodney Major, General Manager responsible for Ontario Environmental laboratory operations.

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