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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970816
Date Submitted: 2022-01-28
Date Reported: 2022-01-29
Project: Sewage (Site: CAM-M WO:___991007___)
COC #: 885571

Dear Alaina Leslie:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Dragana Dzeletovic 2022.01.29 20:36:17 -05'00'

APPROVAL: _____

Dragana Dzeletovic-Andric, Microbiology Team Lead

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
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K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970816
Date Submitted: 2022-01-28
Date Reported: 2022-01-29
Project: Sewage (Site: CAM-M WO:___991007___)
COC #: 885571

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.		
					1607860 Sewage 2022-01-24 CAM-M Cyclelet A	1607861 Sewage 2022-01-24 CAM-M Cyclelet B	1607862 Sewage 2022-01-24 CAM-M Cyclelet C
Microbiology	Faecal Coliforms	0	ct/100mL	MAC 10000	1	0	0

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970816
Date Submitted: 2022-01-28
Date Reported: 2022-01-29
Project: Sewage (Site: CAM-M WO:___991007___)
COC #: 885571

Sample Comment Summary

Sample ID: 1607860 CAM-M Cyclelet A Deviation from standard protocol. All bacteria analysis on report is past hold time.

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

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Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970812
Date Submitted: 2022-01-28
Date Reported: 2022-02-04
Project: Sewage (Site: CAM-M WO:___991007____)
COC #: 885571

Dear Alaina Leslie:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Charlie Long Qu 2022.02.04 16:54:12 -05'00'

APPROVAL: _____

Long Qu, Organics Supervisor

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Certificate of Analysis

eurofins | Environment Testing

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970812
Date Submitted: 2022-01-28
Date Reported: 2022-02-04
Project: Sewage (Site: CAM-M WO:___991007____)
COC #: 885571

				Lab I.D.	1607853
				Sample Matrix	Sewage
				Sample Type	
				Sampling Date	2022-01-24
				Sample I.D.	CAM-M Cyclelet
Group	**Analyte**	**MRL**	**Units**	**Guideline**	
General Chemistry	BOD5	1	mg/L	MAC 120	2
	pH	1.00		6-9	6.32
	Total Suspended Solids	2	mg/L	MAC 180	<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		5
	Oil & Grease - Non-mineral	1	mg/L		2
	Oil & Grease - Total	1	mg/L		7
	Visible Sheen		P/A	Absent	A

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Results relate only to the parameters tested on the samples submitted.
Methods references and/or additional QA/QC information available on request.

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1970812
Date Submitted: 2022-01-28
Date Reported: 2022-02-04
Project: Sewage (Site: CAM-M WO:___991007____)
COC #: 885571

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 416288 **Analysis/Extraction Date** 2022-02-02 **Analyst** Z S **Method** SM 5210B			
BOD5	<1 mg/L	93	75-125
Run No 416293 **Analysis/Extraction Date** 2022-02-01 **Analyst** SKH **Method** C SM2540			
Total Suspended Solids	<2 mg/L	98	90-110
Run No 416379 **Analysis/Extraction Date** 2022-01-31 **Analyst** AsA **Method** SM2320,2510,4500H/F			
pH		100	90-110
Run No 416597 **Analysis/Extraction Date** 2022-02-04 **Analyst** R G **Method** SM 5520B/F			
Oil & Grease - Mineral	<1 mg/L	70	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120
Run No 416658 **Analysis/Extraction Date** 2022-02-04 **Analyst** R G **Method** SHEEN			
Visible Sheen	0 P/A		

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.
Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Certificate of Analysis

eurofins | Environment Testing

Client:	Raytheon Canada Limited Ottawa 400 Cooper St. Ottawa, ON K2P 2H8	Report Number:	1971611
		Date Submitted:	2022-02-11
		Date Reported:	2022-02-18
		Project:	Sewage (Site: CAM-M WO:_____)
Attention:	Ms. Alaina Leslie	COC #:	886124
PO#:	00887-OT		
Invoice to:	Raytheon Canada Limited Ottawa		

Dear Alaina Leslie:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Sarah Horner 2022.02.18 15:33:23 -05'00'

APPROVAL: _____

Sarah Horner, Inorganics Technician

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Certificate of Analysis

eurofins | Environment Testing

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1971611
Date Submitted: 2022-02-11
Date Reported: 2022-02-18
Project: Sewage (Site: CAM-M WO:_____)
COC #: 886124

				Lab I.D.	1609952
				Sample Matrix	Sewage
				Sample Type	
				Sampling Date	2022-02-07
				Sample I.D.	CAM-M Cyclelet
Group	**Analyte**	**MRL**	**Units**	**Guideline**	
General Chemistry	BOD5	1	mg/L	MAC 120	3
	pH	1.00		6-9	7.30
	Total Suspended Solids	2	mg/L	MAC 180	3
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		<1
	Visible Sheen		P/A	Absent	A

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Results relate only to the parameters tested on the samples submitted.
Methods references and/or additional QA/QC information available on request.

eurofins | Environment Testing

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1971611
Date Submitted: 2022-02-11
Date Reported: 2022-02-18
Project: Sewage (Site: CAM-M WO:_____)
COC #: 886124

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 417099 **Analysis/Extraction Date** 2022-02-14 **Analyst** AsA **Method** SM2320,2510,4500H/F			
pH		102	90-110
Run No 417169 **Analysis/Extraction Date** 2022-02-16 **Analyst** AaN **Method** C SM2540			
Total Suspended Solids	<2 mg/L	99	90-110
Run No 417171 **Analysis/Extraction Date** 2022-02-16 **Analyst** AET **Method** SM 5210B			
BOD5	<1 mg/L	81	75-125
Run No 417292 **Analysis/Extraction Date** 2022-02-17 **Analyst** R G **Method** SM 5520B/F			
Oil & Grease - Mineral	<1 mg/L	100	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	100	60-120
Run No 417337 **Analysis/Extraction Date** 2022-02-18 **Analyst** R G **Method** SHEEN			
Visible Sheen			

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

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Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1971594
Date Submitted: 2022-02-11
Date Reported: 2022-02-13
Project: Sewage (Site: CAM-M WO:_____)
COC #: 886124

Dear Alaina Leslie:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

APPROVAL: Dragana Dzeletovic 2022.02.13 01:20:27 -05'00'

Dragana Dzeletovic-Andric, Microbiology Team Lead

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1971594
Date Submitted: 2022-02-11
Date Reported: 2022-02-13
Project: Sewage (Site: CAM-M WO:_____)
COC #: 886124

				Lab I.D.	1609931	1609932	1609933
				Sample Matrix	WW	WW	WW
				Sample Type			
				Sampling Date	2022-02-07	2022-02-07	2022-02-07
				Sample I.D.	CAM-M Cyclelet - A	CAM-M Cyclelet - B	CAM-M Cyclelet - C
Group	**Analyte**	**MRL**	**Units**	**Guideline**			
Microbiology	Faecal Coliforms	0	ct/100mL	MAC 10000	1	3	1

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1971594
Date Submitted: 2022-02-11
Date Reported: 2022-02-13
Project: Sewage (Site: CAM-M WO:_____)
COC #: 886124

Sample Comment Summary

Sample ID: 1609931 CAM-M Cyclelet - A Deviation from standard protocol. All bacteria samples on report are past hold time.

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Certificate of Analysis

Client:	Raytheon Canada Limited Ottawa 400 Cooper St. Ottawa, ON K2P 2H8	Report Number:	1972997
		Date Submitted:	2022-03-09
		Date Reported:	2022-03-16
		Project:	Sewage (Site: CAM-M WO:____)
		COC #:	206778
Attention:	Ms. Alaina Leslie		
PO#:	00887-OT		
Invoice to:	Raytheon Canada Limited Ottawa		

Dear Alaina Leslie:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Yasna Hassanabadi 2022.03.16 16:41:26 -04'00'

APPROVAL: _____

Yasna Hassanabadi, Organics Technician

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Certificate of Analysis

eurofins | Environment Testing

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1972997
Date Submitted: 2022-03-09
Date Reported: 2022-03-16
Project: Sewage (Site: CAM-M WO:____)
COC #: 206778

				Lab I.D.	1613644
				Sample Matrix	Sewage
				Sample Type	
				Sampling Date	2022-03-05
				Sample I.D.	ML Cyclelet
Group	**Analyte**	**MRL**	**Units**	**Guideline**	
General Chemistry	BOD5	1	mg/L	MAC 120	2
	pH	1.00		6-9	6.72
	Total Suspended Solids	2	mg/L	MAC 180	<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		<1
	Oil & Grease - Total	1	mg/L		1
	Visible Sheen		P/A	Absent	A

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Results relate only to the parameters tested on the samples submitted.
Methods references and/or additional QA/QC information available on request.

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1972997
Date Submitted: 2022-03-09
Date Reported: 2022-03-16
Project: Sewage (Site: CAM-M WO:____)
COC #: 206778

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 418390 **Analysis/Extraction Date** 2022-03-14 **Analyst** SKH **Method** C SM2540			
Total Suspended Solids	<2 mg/L	101	90-110
Run No 418410 **Analysis/Extraction Date** 2022-03-16 **Analyst** Z S **Method** SM 5210B			
BOD5	<1 mg/L	91	75-125
Run No 418559 **Analysis/Extraction Date** 2022-03-15 **Analyst** AsA **Method** SM2320,2510,4500H/F			
pH		98	90-110
Run No 418643 **Analysis/Extraction Date** 2022-03-16 **Analyst** R G **Method** SHEEN			
Visible Sheen	0 P/A		
Run No 418644 **Analysis/Extraction Date** 2022-03-16 **Analyst** R G **Method** SM 5520B/F			
Oil & Grease - Mineral	<1 mg/L	90	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	95	60-120

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

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Methods references and/or additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Certificate of Analysis

eurofins | Environment Testing

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1973009
Date Submitted: 2022-03-09
Date Reported: 2022-03-11
Project: Sewage (Site: CAM-M WO:_____)
COC #: 206778

Dear Alaina Leslie:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Jason Kennedy 2022.03.11 10:59:02 -05'00'

APPROVAL: _____

Jason Kennedy, Project Manager

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1973009
Date Submitted: 2022-03-09
Date Reported: 2022-03-11
Project: Sewage (Site: CAM-M WO:_____)
COC #: 206778

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D.	1613683 WW 2022-03-05 ML Cyclelet - A	1613684 WW 2022-03-05 ML Cyclelet - B	1613685 WW 2022-03-05 ML Cyclelet - C
Microbiology	Faecal Coliforms	0	ct/100mL	MAC 10000		1	0	1

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

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Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 002160-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1973009
Date Submitted: 2022-03-09
Date Reported: 2022-03-11
Project: Sewage (Site: CAM-M WO:_____)
COC #: 206778

Sample Comment Summary

Sample ID: 1613683 ML Cyclelet - A	Deviation from standard protocol. All samples on report are past hold time.

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

Results relate only to the parameters tested on the samples submitted.
Analytical Method: AMBCOLM1
additional QA/QC information available on request.

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1976746
Date Submitted: 2022-05-06
Date Reported: 2022-05-12
Project: Sewage (Site: FOX-M WO: 983491)
COC #: 890297

Dear Alaina Leslie:

Please find attached the analytical results for your samples. If you have any questions regarding this report, please do not hesitate to call (613-727-5692).

Report Comments:

Emma-Dawn Ferguson 2022.05.12 15:15:44 -04'00'

APPROVAL: _____

Emma-Dawn Ferguson, Chemist

All analysis is completed at Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) unless otherwise indicated.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by CALA, Canadian Association for Laboratory Accreditation to ISO/IEC 17025 for tests which appear on the scope of accreditation. The scope is available at: http://www.cala.ca/scopes/2602.pdf.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is licensed by the Ontario Ministry of the Environment, Conservation, and Parks (MECP) for specific tests in drinking water (license #2318). A copy of the license is available upon request.

Eurofins Environment Testing Canada Inc. (Ottawa, Ontario) is accredited by the Ontario Ministry of Agriculture, Food, and Rural Affairs for specific tests in agricultural soils.

Please note: Field data, where presented on the report, has been provided by the client and is presented for informational purposes only. Guideline values listed on this report are provided for ease of use (informational purposes) only. Eurofins recommends consulting the official provincial or federal guideline as required. Unless otherwise stated, measurement uncertainty is not taken into account when determining guideline or regulatory exceedances.

Certificate of Analysis

eurofins | Environment Testing

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1976746
Date Submitted: 2022-05-06
Date Reported: 2022-05-12
Project: Sewage (Site: FOX-M WO: 983491)
COC #: 890297

Group	Analyte	MRL	Units	Guideline	Lab I.D. Sample Matrix Sample Type Sampling Date Sample I.D. 1624215 Sewage 2022-05-02 CAM-M Cycle Let
General Chemistry	BOD5	1	mg/L	MAC 120	2
	pH	1.00		6-9	6.94
	Total Suspended Solids	2	mg/L	MAC 180	<2
Oil and Grease	Oil & Grease - Mineral	1	mg/L		<1
	Oil & Grease - Non-mineral	1	mg/L		1
	Oil & Grease - Total	1	mg/L		1
	Visible Sheen		P/A	Absent	A

Guideline = Nunavut Water Board -Sewage *** = Guideline Exceedence**

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Results relate only to the parameters tested on the samples submitted.
Methods references and/or additional QA/QC information available on request.

Certificate of Analysis

Client: Raytheon Canada Limited Ottawa
400 Cooper St.
Ottawa, ON
K2P 2H8
Attention: Ms. Alaina Leslie
PO#: 00887-OT
Invoice to: Raytheon Canada Limited Ottawa

Report Number: 1976746
Date Submitted: 2022-05-06
Date Reported: 2022-05-12
Project: Sewage (Site: FOX-M WO: 983491)
COC #: 890297

QC Summary

Analyte	Blank	QC % Rec	QC Limits
Run No 421606 **Analysis/Extraction Date** 2022-05-10 **Analyst** SKH **Method** C SM2540			
Total Suspended Solids	<2 mg/L	98	90-110
Run No 421635 **Analysis/Extraction Date** 2022-05-09 **Analyst** AsA **Method** SM2320,2510,4500H/F			
pH		99	90-110
Run No 421707 **Analysis/Extraction Date** 2022-05-11 **Analyst** FM **Method** SM 5520B/F			
Oil & Grease - Mineral	<1 mg/L	100	60-120
Oil & Grease - Non-mineral	<1 mg/L		60-120
Oil & Grease - Total	<1 mg/L	110	60-120
Run No 421708 **Analysis/Extraction Date** 2022-05-11 **Analyst** FM **Method** SHEEN			
Visible Sheen			
Run No 421726 **Analysis/Extraction Date** 2022-05-11 **Analyst** CK **Method** SM 5210B			
BOD5	<1 mg/L	77	75-125

Guideline = Nunavut Water Board -Sewage

*** = Guideline Exceedence**

MRL = Method Reporting Limit, AO = Aesthetic Objective, OG = Operational Guideline, MAC = Maximum Acceptable Concentration, IMAC = Interim Maximum Acceptable Concentration, STD = Standard, PWQO = Provincial Water Quality Guideline, IPWQO = Interim Provincial Water Quality Objective, TDR = Typical Desired Range

Results relate only to the parameters tested on the samples submitted.
Methods references and/or additional QA/QC information available on request.

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: **EO2208177**	Page	: 1 of 3
Client	: **NASITTUQ CORPORATION**	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 360 Alberts St Suite 1830 Ottawa ON Canada	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 27-Sep-2022 16:30
PO	: ----	Date Analysis Commenced	: 28-Sep-2022
C-O-C number	: ----	Issue Date	: 07-Oct-2022 16:31
Sampler	: ----		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Cynthia Bauer	Organic Supervisor	Organics, Calgary, Alberta
Daniel Nguyen	Lab Assistant	Inorganics, Edmonton, Alberta
Jessica Maitland	Lab Assistant	Inorganics, Edmonton, Alberta
Michelle Schroder	Lab Assistant	Inorganics, Edmonton, Alberta
Rosalie Van Deelen	Laboratory Assistant	Organics, Calgary, Alberta
Sunil Palak		Microbiology, Calgary, Alberta

No Breaches Found

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.
Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key : LOR: Limit of Reporting (detection limit).

Unit	*Description*
CFU/100mL	colony forming units per 100 mL
mg/L	milligrams per litre
pH units	pH units

>: greater than.
<: less than.
Red shading is applied where the result is greater than the Guideline Upper Limit or the result is lower than the Guideline Lower Limit.
For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Analytical Results Evaluation

Matrix:	Client sample ID		----	----	----	----	----	----	----
	Sampling date/time		----	----	----	----	----	----	----
	Sub-Matrix		----		----	----	----	----	----
Analyte	CAS Number	Unit	----	----	----	----	----	----	----
		-							

Please refer to the General Comments section for an explanation of any qualifiers detected.

pH	----	pH units							
solids, total suspended [TSS]	----	mg/L							
coliforms, thermotolerant [fecal]	----	CFU/100mL							
biochemical oxygen demand [BOD]	----	mg/L							
oil & grease (gravimetric)	----	mg/L							
oil & grease, animal/vegetable (gravimetric)	----	mg/L							
oil & grease, mineral (gravimetric)	----	mg/L							

CERTIFICATE OF ANALYSIS

Work Order	: **EO2208177**	Page	: 1 of 3
Client	: **NASITTUQ CORPORATION**	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 360 Alberts St Suite 1830 Ottawa ON Canada	Address	: 9450 - 17 Avenue NW Edmonton AB Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 27-Sep-2022 16:30
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Sampler	: ----		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

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This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Cynthia Bauer	Organic Supervisor	Organics, Calgary, Alberta
Daniel Nguyen	Lab Assistant	Inorganics, Edmonton, Alberta
Jessica Maitland	Lab Assistant	Inorganics, Edmonton, Alberta
Michelle Schroder	Lab Assistant	Inorganics, Edmonton, Alberta
Rosalie Van Deelen	Laboratory Assistant	Organics, Calgary, Alberta
Sunil Palak		Microbiology, Calgary, Alberta

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
CFU/100mL	colony forming units per 100 mL
mg/L	milligrams per litre
pH units	pH units

>: greater than.

<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Analytical Results

EO2208177-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: ML-Cycle-let Gen Chem and O&G
Client sampling date / time: 21-Sep-2022 14:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
pH	----	7.63	0.10	pH units	E108	28-Sep-2022	04-Oct-2022	670539
solids, total suspended [TSS]	----	<3.0	3.0	mg/L	E160	-	28-Sep-2022	670621
Aggregate Organics								
biochemical oxygen demand [BOD]	----	<2.0	2.0	mg/L	E550	-	28-Sep-2022	670075
oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	07-Oct-2022	07-Oct-2022	686323
oil & grease, animal/vegetable (gravimetric)	----	<5.0	5	mg/L	EC567A.SG	-	07-Oct-2022	-
oil & grease, mineral (gravimetric)	----	<5.0	5.0	mg/L	E567SG	07-Oct-2022	07-Oct-2022	686324

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

EO2208177-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: ML-Cycle-let Faecal A
Client sampling date / time: 21-Sep-2022 14:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Microbiological Tests								
coliforms, thermotolerant [fecal]	----	20	1	CFU/100mL	E012.FC	-	28-Sep-2022	672915

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

EO2208177-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: ML-Cycle-let Faecal B
Client sampling date / time: 21-Sep-2022 14:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Microbiological Tests								
coliforms, thermotolerant [fecal]	----	33	1	CFU/100mL	E012.FC	-	28-Sep-2022	672915

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

EO2208177-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: ML-Cycle-let Faecal C
Client sampling date / time: 21-Sep-2022 14:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Microbiological Tests								
coliforms, thermotolerant [fecal]	----	38	1	CFU/100mL	E012.FC	-	28-Sep-2022	672915

Please refer to the General Comments section for an explanation of any qualifiers detected.

ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EO2208177**	Page	: 1 of 4
Client	: NASITTUQ CORPORATION	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 360 Alberts St Suite 1830 Ottawa ON Canada	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 27-Sep-2022 16:30
PO	: ----	Date Analysis Commenced	: 28-Sep-2022
C-O-C number	: ----	Issue Date	: 07-Oct-2022 16:31
Sampler	: ----		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Cynthia Bauer	Organic Supervisor	Calgary Organics, Calgary, Alberta
Daniel Nguyen	Lab Assistant	Edmonton Inorganics, Edmonton, Alberta
Jessica Maitland	Lab Assistant	Edmonton Inorganics, Edmonton, Alberta
Michelle Schroder	Lab Assistant	Edmonton Inorganics, Edmonton, Alberta
Rosalie Van Deelen	Laboratory Assistant	Calgary Organics, Calgary, Alberta
Sunil Palak		Calgary Microbiology, Calgary, Alberta

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 670539)											
EO2208166-017	Anonymous	pH	----	E108	0.10	pH units	8.40	8.38	0.238%	3%	----
Physical Tests (QC Lot: 670621)											
EO2208023-001	Anonymous	solids, total suspended [TSS]	----	E160	3.0	mg/L	<3.0	<3.0	0	Diff <2x LOR	----
Physical Tests (QC Lot: 675825)											
EO2208304-058	Anonymous	pH	----	E108	0.10	pH units	7.99	8.01	0.250%	3%	----
Microbiological Tests (QC Lot: 672915)											
EO2208177-004	ML-Cycle-let Faecal C	coliforms, thermotolerant [fecal]	----	E012.FC	1	CFU/100mL	38	31	20.3%	65%	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 670621)						
solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Microbiological Tests (QCLot: 672915)						
coliforms, thermotolerant [fecal]	----	E012.FC	1	CFU/100mL	<1	----
Aggregate Organics (QCLot: 670075)						
biochemical oxygen demand [BOD]	----	E550	2	mg/L	<2.0	----
Aggregate Organics (QCLot: 686323)						
oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 686324)						
oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	<5.0	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 670539)									
pH	----	E108	----	pH units	6 pH units	102	97.0	103	----
Physical Tests (QCLot: 670621)									
solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	104	85.0	115	----
Physical Tests (QCLot: 675825)									
pH	----	E108	----	pH units	6 pH units	100	97.0	103	----
Aggregate Organics (QCLot: 670075)									
biochemical oxygen demand [BOD]	----	E550	2	mg/L	198 mg/L	115	85.0	115	----
Aggregate Organics (QCLot: 686323)									
oil & grease (gravimetric)	----	E567	5	mg/L	100 mg/L	84.0	70.0	130	----
Aggregate Organics (QCLot: 686324)									
oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	50 mg/L	73.8	70.0	130	----

QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **EO2208177**	Page	: 1 of 6
Client	: **NASITTUQ CORPORATION**	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 360 Alberts St Suite 1830 Ottawa ON Canada	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 27-Sep-2022 16:30
PO	: ----	Issue Date	: 07-Oct-2022 16:32
C-O-C number	: ----		
Sampler	: ----		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: ✗ = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT-48h]										
ML-Cycle-let Gen Chem and O&G	E550	21-Sep-2022	----	----	----		28-Sep-2022	48 hrs	165 hrs	✗ EHTR
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Compliant container										
ML-Cycle-let Gen Chem and O&G	E567SG	21-Sep-2022	07-Oct-2022	28 days	16 days	✓	07-Oct-2022	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Compliant container										
ML-Cycle-let Gen Chem and O&G	E567	21-Sep-2022	07-Oct-2022	28 days	16 days	✓	07-Oct-2022	40 days	0 days	✓
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate)										
ML-Cycle-let Faecal A	E012.FC	21-Sep-2022	----	----	----		28-Sep-2022	30 hrs	169 hrs	✗ EHTR
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate)										
ML-Cycle-let Faecal B	E012.FC	21-Sep-2022	----	----	----		28-Sep-2022	30 hrs	169 hrs	✗ EHTR
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate)										
ML-Cycle-let Faecal C	E012.FC	21-Sep-2022	----	----	----		28-Sep-2022	30 hrs	169 hrs	✗ EHTR
Physical Tests : pH by Meter										
HDPE [BOD HT-48h]										
ML-Cycle-let Gen Chem and O&G	E108	21-Sep-2022	28-Sep-2022	41 hrs	3 hrs	✗ EHTR-FM	30-Sep-2022	-165.53 hrs	41 hrs	✗ EHTR-FM

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TSS by Gravimetry										
HDPE [BOD HT-48h]										
ML-Cycle-let Gen Chem and O&G	E160	21-Sep-2022	----	----	----		28-Sep-2022	7 days	7 days	✓

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

EHTR: Exceeded ALS recommended hold time prior to sample receipt.

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: ✗ = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Biochemical Oxygen Demand - 5 day	E550	670075	0	16	0.0	5.0	✗
pH by Meter	E108	675825	2	39	5.1	5.0	✓
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	672915	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	670621	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Biochemical Oxygen Demand - 5 day	E550	670075	1	16	6.2	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	686324	1	1	100.0	5.0	✓
Oil & Grease by Gravimetry	E567	686323	1	1	100.0	5.0	✓
pH by Meter	E108	675825	2	39	5.1	5.0	✓
TSS by Gravimetry	E160	670621	1	20	5.0	5.0	✓
Method Blanks (MB)							
Biochemical Oxygen Demand - 5 day	E550	670075	1	16	6.2	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	686324	1	1	100.0	5.0	✓
Oil & Grease by Gravimetry	E567	686323	1	1	100.0	5.0	✓
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	672915	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	670621	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC Calgary - Environmental	Water	APHA 9222 D (mod)	Following filtration (0.45 µm), and incubation at 44.5 ±0.2°C for 22-26 hours, colonies exhibiting characteristic morphology of the target organism are enumerated and confirmed.
pH by Meter	E108 Edmonton - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
TSS by Gravimetry	E160 Edmonton - Environmental	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at 104 ± 1°C, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
Biochemical Oxygen Demand - 5 day	E550 Edmonton - Environmental	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Oil & Grease by Gravimetry	E567 Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
Mineral Oil & Grease by Gravimetry	E567SG Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane, followed by silica gel treatment after which the extract is evaporated to dryness. The residue is then weighed to determine Mineral Oil and Grease.
Animal & Vegetable Oil & Grease by Gravimetry	EC567A.SG Calgary - Environmental	Water	APHA 5520 (mod)	Animal & vegetable oil and grease is calculated as follows: Oil & Grease (gravimetric) minus Mineral Oil & Grease (gravimetric)

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Oil & Grease Extraction for Gravimetry	EP567 Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

COC Number: 14 -

Page ____ of ____

Report To		Report Format / Distribution	Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Nasittuq Corp	Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Alaina Leslie	Quality Control (QC) Report with Report ☑ Yes ☐ No	P ☐ Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	275 Slater St Ottawa ON K1P 5H9	☑ Criteria on Report - provide details below if box checked	E ☐ Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
Phone:	613-223-0629	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 1 or Fax alaina.leslie@nasittuq.com	Specify Date Required for E2,E or P:
		Email 2 labresults@nasittuq.com	

Invoice To	Same as Report To ☐ Yes ☐ No	Invoice Distribution
	Copy of Invoice with Report ☐ Yes ☐ No	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX
Company:		Email 1 or Fax labresults@nasittuq.com
Contact:		Email 2 accounting@nasittuq.com

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q89840	Approver ID:	Cost Center:
Job #:	NWS Sewage	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): EO2208177 **ALS Contact:** E. Dobbin **Sampler:** *

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	BOD, pH, TSS	O&G	Faecal Coliforms	Number of Containers
	ML - Cycle-let Gen Chem and O&G	21-Sep-22	1400	Effluent	R	R		3
	ML - Cycle-let Faecal A	21 Sep 22	11	Effluent			R	1
	ML - Cycle-let Faecal B	21 Sep 22	11	Effluent			R	1
	ML - Cycle-let Faecal C	21 Sep 22	11	Effluent			R	1

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No	NWS Nunavut Water Board Licence Criteria
Are samples for human drinking water use? ☐ Yes ☑ No	

SAMPLE CONDITIC
Frozen ☑
Ice packs Yes ☐ No ☐
Cooling Initiated ☐
INITIAL COOLER TEMPERATURES °C: 4.3

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPME
Released by:	Date: 21 Sep 22	Time: 1300	Received by: VA	Date: 27-Sept-2022	Time: 4:30pm	Received by:

Environmental Division
Edmonton
Work Order Reference
EO2208177

Telephone : +1 780 413 5227

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0328e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

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right partner.

CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: **EO2210337**	Page	: 1 of 3
Client	: **NASITTUQ CORPORATION**	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 275 Slater Street Suite 1600 Ottawa ON Canada K1P 5H9	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 23-Nov-2022 15:15
PO	: ----	Date Analysis Commenced	: 24-Nov-2022
C-O-C number	: ----	Issue Date	: 30-Nov-2022 12:27
Sampler	: KB		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Cynthia Bauer	Organic Supervisor	Organics, Calgary, Alberta
Jessica Maitland	Lab Assistant	Inorganics, Edmonton, Alberta
Marsha Calero	Laboratory Assistant	Organics, Calgary, Alberta
Michelle Schroder	Lab Assistant	Inorganics, Edmonton, Alberta
Rosalie Van Deelen	Laboratory Assistant	Organics, Calgary, Alberta
Sobhithan Pillay		Inorganics, Edmonton, Alberta
Sunil Palak		Microbiology, Calgary, Alberta

No Breaches Found

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.
Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key : LOR: Limit of Reporting (detection limit).

Unit	*Description*
CFU/100mL	colony forming units per hundred millilitres
mg/L	milligrams per litre
pH units	pH units

>: greater than.
<: less than.
Red shading is applied where the result is greater than the Guideline Upper Limit or the result is lower than the Guideline Lower Limit.
For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Qualifiers

Qualifier	*Description*
RRV	*Reported result verified by repeat analysis.*

Analytical Results Evaluation

Matrix:	Client sample ID	----	----	----	----	----	----	----
	Sampling date/time	----	----	----	----	----	----	----
	Sub-Matrix	----		----	----	----	----	----
Analyte / CAS Number	Unit	----	----	----	----	----	----	----
	-							

Please refer to the General Comments section for an explanation of any qualifiers detected.

pH	----	pH units							
solids, total suspended [TSS]	----	mg/L							
coliforms, thermotolerant [fecal]	----	CFU/100mL							
biochemical oxygen demand [BOD]	----	mg/L							
oil & grease (gravimetric)	----	mg/L							
oil & grease, animal/vegetable (gravimetric)	----	mg/L							
oil & grease, mineral (gravimetric)	----	mg/L							

CERTIFICATE OF ANALYSIS

Work Order	: **EO2210337**	Page	: 1 of 4
Client	: **NASITTUQ CORPORATION**	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 275 Slater Street Suite 1600 Ottawa ON Canada K1P 5H9	Address	: 9450 - 17 Avenue NW Edmonton AB Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 23-Nov-2022 15:15
PO	: ----	Date Analysis Commenced	: 24-Nov-2022
C-O-C number	: ----	Issue Date	: 30-Nov-2022 12:27
Sampler	: KB		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

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This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Cynthia Bauer	Organic Supervisor	Organics, Calgary, Alberta
Jessica Maitland	Lab Assistant	Inorganics, Edmonton, Alberta
Marsha Calero	Laboratory Assistant	Organics, Calgary, Alberta
Michelle Schroder	Lab Assistant	Inorganics, Edmonton, Alberta
Rosalie Van Deelen	Laboratory Assistant	Organics, Calgary, Alberta
Sobhithan Pillay		Inorganics, Edmonton, Alberta
Sunil Palak		Microbiology, Calgary, Alberta

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.
Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Please refer to Quality Control Interpretive report (QCI) for information regarding Holding Time compliance.

Key : CAS Number: Chemical Abstracts Services number is a unique identifier assigned to discrete substances
LOR: Limit of Reporting (detection limit).

Unit	*Description*
CFU/100mL	colony forming units per hundred millilitres
mg/L	milligrams per litre
pH units	pH units

>: greater than.
<: less than.

Surrogate: An analyte that is similar in behavior to target analyte(s), but that does not occur naturally in environmental samples. For applicable tests, surrogates are added to samples prior to analysis as a check on recovery.

Test results reported relate only to the samples as received by the laboratory.

UNLESS OTHERWISE STATED on SRN or QCI Report, ALL SAMPLES WERE RECEIVED IN ACCEPTABLE CONDITION.

Qualifiers

Qualifier	*Description*
RRV	*Reported result verified by repeat analysis.*

Analytical Results

EO2210337-001

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: CAM-MAIN-CYCLE-LET GEN CHEM AND O&G
Client sampling date / time: 17-Nov-2022 10:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Physical Tests								
pH	----	7.15	0.10	pH units	E108	24-Nov-2022	24-Nov-2022	755819
solids, total suspended [TSS]	----	10.8 RRV.	3.0	mg/L	E160	-	30-Nov-2022	761430
Aggregate Organics								
biochemical oxygen demand [BOD]	----	<2.0	2.0	mg/L	E550	-	24-Nov-2022	755990
oil & grease (gravimetric)	----	<5.0	5.0	mg/L	E567	24-Nov-2022	24-Nov-2022	755630
oil & grease, animal/vegetable (gravimetric)	----	<5.0	5	mg/L	EC567A.SG	-	25-Nov-2022	-
oil & grease, mineral (gravimetric)	----	<5.0	5.0	mg/L	E567SG	24-Nov-2022	25-Nov-2022	755631

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

EO2210337-002

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: CAM-MAIN-CYCLE-LET FAECAL A
Client sampling date / time: 17-Nov-2022 10:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Microbiological Tests								
coliforms, thermotolerant [fecal]	----	86	1	CFU/100mL	E012.FC	-	24-Nov-2022	758004

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

EO2210337-003

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: CAM-MAIN-CYCLE-LET FAECAL B
Client sampling date / time: 17-Nov-2022 10:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Microbiological Tests								
coliforms, thermotolerant [fecal]	----	209	1	CFU/100mL	E012.FC	-	24-Nov-2022	758004

Please refer to the General Comments section for an explanation of any qualifiers detected.

Analytical Results

EO2210337-004

Sub-Matrix:**Water**
(Matrix: **Water**)

Client sample ID: CAM-MAIN-CYCLE-LET FAECAL C
Client sampling date / time: 17-Nov-2022 10:00

Analyte	CAS Number	Result	LOR	Unit	Method	Prep Date	Analysis Date	QCLot
Microbiological Tests								
coliforms, thermotolerant [fecal]	----	52	1	CFU/100mL	E012.FC	-	24-Nov-2022	758004

Please refer to the General Comments section for an explanation of any qualifiers detected.

QUALITY CONTROL REPORT

Work Order	: **EO2210337**	Page	: 1 of 4
Client	: NASITTUQ CORPORATION	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 275 Slater Street Suite 1600 Ottawa ON Canada K1P 5H9	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	:	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 23-Nov-2022 15:15
PO	: ----	Date Analysis Commenced	: 24-Nov-2022
C-O-C number	: ----	Issue Date	: 30-Nov-2022 12:27
Sampler	: KB 613 223 0629		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Cynthia Bauer	Organic Supervisor	Calgary Organics, Calgary, Alberta
Jessica Maitland	Lab Assistant	Edmonton Inorganics, Edmonton, Alberta
Marsha Calero	Laboratory Assistant	Calgary Organics, Calgary, Alberta
Michelle Schroder	Lab Assistant	Edmonton Inorganics, Edmonton, Alberta
Rosalie Van Deelen	Laboratory Assistant	Calgary Organics, Calgary, Alberta
Sobhithan Pillay		Edmonton Inorganics, Edmonton, Alberta
Sunil Palak		Calgary Microbiology, Calgary, Alberta

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 755819)											
EO2210322-012	Anonymous	pH	----	E108	0.10	pH units	7.37	7.42	0.676%	3%	----
Physical Tests (QC Lot: 761430)											
EO2210337-001	CAM-MAIN-CYCLE-LET GEN CHEM AND O&G	solids, total suspended [TSS]	----	E160	3.0	mg/L	10.8	9.0	1.8	Diff <2x LOR	----
Microbiological Tests (QC Lot: 758004)											
CG2216370-002	Anonymous	coliforms, thermotolerant [fecal]	----	E012.FC	1	CFU/100mL	<1	<1	0	Diff <2x LOR	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 761430)						
solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Microbiological Tests (QCLot: 758004)						
coliforms, thermotolerant [fecal]	----	E012.FC	1	CFU/100mL	<1	----
Aggregate Organics (QCLot: 755630)						
oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 755631)						
oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 755990)						
biochemical oxygen demand [BOD]	----	E550	2	mg/L	<2.0	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 755819)									
pH	----	E108	----	pH units	6 pH units	99.7	97.0	103	----
Physical Tests (QCLot: 761430)									
solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	98.4	85.0	115	----
Aggregate Organics (QCLot: 755630)									
oil & grease (gravimetric)	----	E567	5	mg/L	100 mg/L	88.2	70.0	130	----
Aggregate Organics (QCLot: 755631)									
oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	50 mg/L	71.7	70.0	130	----
Aggregate Organics (QCLot: 755990)									
biochemical oxygen demand [BOD]	----	E550	2	mg/L	198 mg/L	99.7	85.0	115	----

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **EO2210337**	Page	: 1 of 6
Client	: **NASITTUQ CORPORATION**	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 275 Slater Street Suite 1600 Ottawa ON Canada K1P 5H9	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 23-Nov-2022 15:15
PO	: ----	Issue Date	: 30-Nov-2022 12:27
C-O-C number	: ----		
Sampler	: KB		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- Quality Control Sample Frequency Outliers occur - please see following pages for full details.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT 3d] CAM-MAIN-CYCLE-LET GEN CHEM AND O&G	E550	17-Nov-2022	----	----	----		24-Nov-2022	3 days	7 days	× EHTR
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) CAM-MAIN-CYCLE-LET GEN CHEM AND O&G	E567SG	17-Nov-2022	24-Nov-2022	28 days	7 days	✓	25-Nov-2022	40 days	1 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) CAM-MAIN-CYCLE-LET GEN CHEM AND O&G	E567	17-Nov-2022	24-Nov-2022	28 days	7 days	✓	24-Nov-2022	40 days	0 days	✓
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate) CAM-MAIN-CYCLE-LET FAECAL A	E012.FC	17-Nov-2022	----	----	----		24-Nov-2022	30 hrs	166 hrs	× EHTR
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate) CAM-MAIN-CYCLE-LET FAECAL B	E012.FC	17-Nov-2022	----	----	----		24-Nov-2022	30 hrs	166 hrs	× EHTR
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate) CAM-MAIN-CYCLE-LET FAECAL C	E012.FC	17-Nov-2022	----	----	----		24-Nov-2022	30 hrs	166 hrs	× EHTR
Physical Tests : pH by Meter										
HDPE CAM-MAIN-CYCLE-LET GEN CHEM AND O&G	E108	17-Nov-2022	24-Nov-2022	----	----		24-Nov-2022	0.25 hrs	3.25 hrs	× EHTR-FM

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TSS by Gravimetry										
HDPE										
CAM-MAIN-CYCLE-LET GEN CHEM AND O&G	E160	17-Nov-2022	----	----	----		29-Nov-2022	7 days	12 days	× EHT

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

EHTR: Exceeded ALS recommended hold time prior to sample receipt.

EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: ✘ = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Biochemical Oxygen Demand - 5 day	E550	755990	0	13	0.0	5.0	✘
pH by Meter	E108	755819	1	20	5.0	5.0	✓
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	758004	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	761430	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Biochemical Oxygen Demand - 5 day	E550	755990	1	13	7.6	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	755631	1	1	100.0	5.0	✓
Oil & Grease by Gravimetry	E567	755630	1	4	25.0	5.0	✓
pH by Meter	E108	755819	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	761430	1	20	5.0	5.0	✓
Method Blanks (MB)							
Biochemical Oxygen Demand - 5 day	E550	755990	1	13	7.6	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	755631	1	1	100.0	5.0	✓
Oil & Grease by Gravimetry	E567	755630	1	4	25.0	5.0	✓
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	758004	1	20	5.0	5.0	✓
TSS by Gravimetry	E160	761430	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC Calgary - Environmental	Water	APHA 9222 D (mod)	Following filtration (0.45 µm), and incubation at 44.5 ±0.2°C for 22-26 hours, colonies exhibiting characteristic morphology of the target organism are enumerated and confirmed.
pH by Meter	E108 Edmonton - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
TSS by Gravimetry	E160 Edmonton - Environmental	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at 104 ± 1°C, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
Biochemical Oxygen Demand - 5 day	E550 Edmonton - Environmental	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Oil & Grease by Gravimetry	E567 Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
Mineral Oil & Grease by Gravimetry	E567SG Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane, followed by silica gel treatment after which the extract is evaporated to dryness. The residue is then weighed to determine Mineral Oil and Grease.
Animal & Vegetable Oil & Grease by Gravimetry	EC567A.SG Calgary - Environmental	Water	APHA 5520 (mod)	Animal & vegetable oil and grease is calculated as follows: Oil & Grease (gravimetric) minus Mineral Oil & Grease (gravimetric)

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Oil & Grease Extraction for Gravimetry	EP567 Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9878

Affix ALS barcode label here (lab use only)

COC Number: 14 -

Page ____ of ____

Report To		Report Format / Distribution	Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Nasittuq Corp	Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Alaina Leslie	Quality Control (QC) Report with Report ☑ Yes ☐ No	P ☐ Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	275 Slater St Ottawa ON K1P 5H9	☑ Criteria on Report - provide details below if box checked Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	E ☐ Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
Phone:	613-223-0629	Email 1 or Fax alaina.leslie@nasittuq.com	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 2 labresults@nasittuq.com	Specify Date Required for E2,E or P:

Invoice To	Same as Report To ☐ Yes ☐ No	Invoice Distribution	
	Copy of Invoice with Report ☐ Yes ☐ No	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	
Company:		Email 1 or Fax labresults@nasittuq.com	
Contact:		Email 2 accounting@nasittuq.com	

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q89840	Approver ID:	Cost Center:
Job #:	NWS Sewage	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): EO2210337 **ALS Contact:** E. Dobbin **Sampler:** Kerry Bennett

Analysis Request — Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	BOD, pH, TSS	O&G	Faecal Coliforms	Number of Containers
	CAM-MAIN - Cycle-let Gen Chem and O&G	* 17-Nov-22	10:00	Effluent	R	R		4
	CAM-MAIN - Cycle-let Faecal A	* 17-Nov-22	10:00	Effluent			R	1
	CAM-MAIN - Cycle-let Faecal B	* 17-Nov-22	10:00	Effluent			R	1
	CAM-MAIN - Cycle-let Faecal C	* 17-Nov-22	10:00	Effluent			R	1

Environmental Division
Edmonton
Work Order Reference
EO2210337

Telephone : +1 780 413 5227

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No Are samples for human drinking water use? ☐ Yes ☑ No	NWS Nunavut Water Board Licence Criteria

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen	☐	SIF Observations	Yes ☐	No ☐	
Ice packs	Yes ☐	No ☐	Custody seal intact	Yes ☐	No ☐
Cooling Initiated	☐				

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
2.8					

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: *	Date:	Time:	Received by:	Date: NOV 23	Time: 3:15PM	Received by:	Date:	Time:

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

NA-FM-0326e v09 Front/04 January 2014

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a **Regulated Drinking Water (DW) System**, please submit using an **Authorized DW COC form**.

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CERTIFICATE OF ANALYSIS (GUIDELINE EVALUATION)

Work Order	: **EO2210828**	Page	: 1 of 3
Client	: **NASITTUQ CORPORATION**	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 275 Slater Street Suite 1600 Ottawa ON Canada K1P 5H9	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 09-Dec-2022 12:05
PO	: ----	Date Analysis Commenced	: 10-Dec-2022
C-O-C number	: ----	Issue Date	: 16-Dec-2022 11:44
Sampler	: KB		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Guideline Comparison

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QC Interpretive report to assist with Quality Review and Sample Receipt Notification (SRN).

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Cynthia Bauer	Organic Supervisor	Organics, Calgary, Alberta
Muzammil Ali	Lab Analyst	Inorganics, Edmonton, Alberta
Nguyen Tran	Laboratory Analyst	Organics, Calgary, Alberta
Ping Yeung	Team Leader - Inorganics	Inorganics, Edmonton, Alberta
Rosalie Van Deelen	Laboratory Assistant	Organics, Calgary, Alberta
Samantha Mayor	Lab Assistant	Inorganics, Edmonton, Alberta
Sunil Palak		Microbiology, Calgary, Alberta

No Breaches Found

General Comments

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Refer to the ALS Quality Control Interpretive report (QCI) for applicable references and methodology summaries. Reference methods may incorporate modifications to improve performance.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.
Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Application of guidelines is provided "as is" without warranty of any kind, either expressed or implied, including, but not limited to fitness for a particular purpose, or non-infringement. ALS assumes no responsibility for errors or omissions in the information. Guidelines are not adjusted for the hardness, pH or temperature of the sample (the most conservative values are used). Measurement uncertainty is not applied to test results prior to comparison with specified criteria values.

Key : LOR: Limit of Reporting (detection limit).

Unit	*Description*
CFU/100mL	colony forming units per hundred millilitres
mg/L	milligrams per litre
pH units	pH units

>: greater than.
<: less than.
Red shading is applied where the result is greater than the Guideline Upper Limit or the result is lower than the Guideline Lower Limit.
For drinking water samples, Red shading is applied where the result for E.coli, fecal or total coliforms is greater than or equal to the Guideline Upper Limit.

Analytical Results Evaluation

Matrix:	Client sample ID	----	----	----	----	----	----	----
	Sampling date/time	----	----	----	----	----	----	----
	Sub-Matrix	----		----	----	----	----	----
Analyte / CAS Number	Unit	----	----	----	----	----	----	----
	-							

Please refer to the General Comments section for an explanation of any qualifiers detected.

pH	----	pH units							
solids, total suspended [TSS]	----	mg/L							
coliforms, thermotolerant [fecal]	----	CFU/100mL							
biochemical oxygen demand [BOD]	----	mg/L							
oil & grease (gravimetric)	----	mg/L							
oil & grease, animal/vegetable (gravimetric)	----	mg/L							
oil & grease, mineral (gravimetric)	----	mg/L							

QUALITY CONTROL REPORT

Work Order	: **EO2210828**	Page	: 1 of 4
Client	: NASITTUQ CORPORATION	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 275 Slater Street Suite 1600 Ottawa ON Canada K1P 5H9	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	:	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 09-Dec-2022 12:05
PO	: ----	Date Analysis Commenced	: 10-Dec-2022
C-O-C number	: ----	Issue Date	: 16-Dec-2022 11:44
Sampler	: KB 613 223 0629		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percent Difference (RPD) and Data Quality Objectives
- Method Blank (MB) Report; Recovery and Data Quality Objectives
- Laboratory Control Sample (LCS) Report; Recovery and Data Quality Objectives

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is conducted in accordance with US FDA 21 CFR Part 11.

Signatories	*Position*	*Laboratory Department*
Cynthia Bauer	Organic Supervisor	Calgary Organics, Calgary, Alberta
Muzammil Ali	Lab Analyst	Edmonton Inorganics, Edmonton, Alberta
Nguyen Tran	Laboratory Analyst	Calgary Organics, Calgary, Alberta
Ping Yeung	Team Leader - Inorganics	Edmonton Inorganics, Edmonton, Alberta
Rosalie Van Deelen	Laboratory Assistant	Calgary Organics, Calgary, Alberta
Samantha Mayor	Lab Assistant	Edmonton Inorganics, Edmonton, Alberta
Sunil Palak		Calgary Microbiology, Calgary, Alberta

General Comments

The ALS Quality Control (QC) report is optionally provided to ALS clients upon request. ALS test methods include comprehensive QC checks with every analysis to ensure our high standards of quality are met. Each QC result has a known or expected target value, which is compared against predetermined Data Quality Objectives (DQOs) to provide confidence in the accuracy of associated test results. This report contains detailed results for all QC results applicable to this sample submission. Please refer to the ALS Quality Control Interpretation report (QCI) for applicable method references and methodology summaries.

Key :

Anonymous = Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number = Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO = Data Quality Objective.
LOR = Limit of Reporting (detection limit).
RPD = Relative Percent Difference
# = Indicates a QC result that did not meet the ALS DQO.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Laboratory Duplicate (DUP) Report

A Laboratory Duplicate (DUP) is a randomly selected intralaboratory replicate sample. Laboratory Duplicates provide information regarding method precision and sample heterogeneity. ALS DQOs for Laboratory Duplicates are expressed as test-specific limits for Relative Percent Difference (RPD), or as an absolute difference limit of 2 times the LOR for low concentration duplicates within ~ 4-10 times the LOR (cut-off is test-specific).

Sub-Matrix: **Water**

					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	*Client sample ID*	*Analyte*	*CAS Number*	*Method*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD(%) or Difference*	*Duplicate Limits*	*Qualifier*
Physical Tests (QC Lot: 774627)											
EO2210837-008	Anonymous	pH	----	E108	0.10	pH units	8.51	8.52	0.117%	3%	----
Physical Tests (QC Lot: 776723)											
EO2210650-001	Anonymous	solids, total suspended [TSS]	----	E160	3.0	mg/L	31.0	32.8	5.64%	20%	----
Microbiological Tests (QC Lot: 775268)											
EO2210828-002	ML MAIN - Cycle-let Gen Fecal A	coliforms, thermotolerant [fecal]	----	E012.FC	2	CFU/100mL	2	2	0	Diff <2x LOR	----
Aggregate Organics (QC Lot: 774549)											
FC2202967-002	Anonymous	biochemical oxygen demand [BOD]	----	E550	2.0	mg/L	101	97.8	3.3%	30%	----

Method Blank (MB) Report

A Method Blank is an analyte-free matrix that undergoes sample processing identical to that carried out for test samples. Method Blank results are used to monitor and control for potential contamination from the laboratory environment and reagents. For most tests, the DQO for Method Blanks is for the result to be < LOR.

Sub-Matrix: **Water**

Analyte	CAS Number	Method	LOR	Unit	Result	Qualifier
Physical Tests (QCLot: 776723)						
solids, total suspended [TSS]	----	E160	3	mg/L	<3.0	----
Microbiological Tests (QCLot: 775268)						
coliforms, thermotolerant [fecal]	----	E012.FC	1	CFU/100mL	<1	----
Aggregate Organics (QCLot: 774549)						
biochemical oxygen demand [BOD]	----	E550	2	mg/L	<2.0	----
Aggregate Organics (QCLot: 779469)						
oil & grease (gravimetric)	----	E567	5	mg/L	<5.0	----
Aggregate Organics (QCLot: 779470)						
oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	<5.0	----

Laboratory Control Sample (LCS) Report

A Laboratory Control Sample (LCS) is an analyte-free matrix that has been fortified (spiked) with test analytes at known concentration and processed in an identical manner to test samples. LCS results are expressed as percent recovery, and are used to monitor and control test method accuracy and precision, independent of test sample matrix.

Sub-Matrix: **Water**

					Laboratory Control Sample (LCS) Report				
					Spike	Recovery (%)	Recovery Limits (%)		
Analyte	CAS Number	Method	LOR	Unit	Concentration	LCS	Low	High	Qualifier
Physical Tests (QCLot: 774627)									
pH	----	E108	----	pH units	6 pH units	100	97.0	103	----
Physical Tests (QCLot: 776723)									
solids, total suspended [TSS]	----	E160	3	mg/L	150 mg/L	92.9	85.0	115	----
Aggregate Organics (QCLot: 774549)									
biochemical oxygen demand [BOD]	----	E550	2	mg/L	198 mg/L	89.3	85.0	115	----
Aggregate Organics (QCLot: 779469)									
oil & grease (gravimetric)	----	E567	5	mg/L	100 mg/L	119	70.0	130	----
Aggregate Organics (QCLot: 779470)									
oil & grease, mineral (gravimetric)	----	E567SG	5	mg/L	50 mg/L	75.3	70.0	130	----

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QUALITY CONTROL INTERPRETIVE REPORT

Work Order	: **EO2210828**	Page	: 1 of 6
Client	: **NASITTUQ CORPORATION**	Laboratory	: Edmonton - Environmental
Contact	: Alaina Leslie	Account Manager	: Dana Brown
Address	: 275 Slater Street Suite 1600 Ottawa ON Canada K1P 5H9	Address	: 9450 - 17 Avenue NW Edmonton, Alberta Canada T6N 1M9
Telephone	: 613 223 0629	Telephone	: 7804136472
Project	: NWS Sewage	Date Samples Received	: 09-Dec-2022 12:05
PO	: ----	Issue Date	: 16-Dec-2022 11:44
C-O-C number	: ----		
Sampler	: KB		
Site	: ----		
Quote number	: Q89801		
No. of samples received	: 4		
No. of samples analysed	: 4		

This report is automatically generated by the ALS LIMS (Laboratory Information Management System) through evaluation of Quality Control (QC) results and other QA parameters associated with this submission, and is intended to facilitate rapid data validation by auditors or reviewers. The report highlights any exceptions and outliers to ALS Data Quality Objectives, provides holding time details and exceptions, summarizes QC sample frequencies, and lists applicable methodology references and summaries.

Key

Anonymous: Refers to samples which are not part of this work order, but which formed part of the QC process lot.
CAS Number: Chemical Abstracts Service number is a unique identifier assigned to discrete substances.
DQO: Data Quality Objective.
LOR: Limit of Reporting (detection limit).
RPD: Relative Percent Difference.

Workorder Comments

Holding times are displayed as "---" if no guidance exists from CCME, Canadian provinces, or broadly recognized international references.

Summary of Outliers

Outliers : Quality Control Samples

- No Method Blank value outliers occur.
- No Duplicate outliers occur.
- No Laboratory Control Sample (LCS) outliers occur
- No Test sample Surrogate recovery outliers exist.

Outliers: Reference Material (RM) Samples

- No Reference Material (RM) Sample outliers occur.

Outliers : Analysis Holding Time Compliance (Breaches)

- Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers : Frequency of Quality Control Samples

- No Quality Control Sample Frequency Outliers occur.

Analysis Holding Time Compliance

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times, which are selected to meet known provincial and /or federal requirements. In the absence of regulatory hold times, ALS establishes recommendations based on guidelines published by organizations such as CCME, US EPA, APHA Standard Methods, ASTM, or Environment Canada (where available). Dates and holding times reported below represent the first dates of extraction or analysis. If subsequent tests or dilutions exceeded holding times, qualifiers are added (refer to COA).

If samples are identified below as having been analyzed or extracted outside of recommended holding times, measurement uncertainties may be increased, and this should be taken into consideration when interpreting results.

Where actual sampling date is not provided on the chain of custody, the date of receipt with time at 00:00 is used for calculation purposes.

Where only the sample date without time is provided on the chain of custody, the sampling date at 00:00 is used for calculation purposes.

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Aggregate Organics : Biochemical Oxygen Demand - 5 day										
HDPE [BOD HT 3d] ML MAIN - Cycle-let Gen Chem and O&G	E550	05-Dec-2022	----	----	----		10-Dec-2022	3 days	5 days	× EHTR
Aggregate Organics : Mineral Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) ML MAIN - Cycle-let Gen Chem and O&G	E567SG	05-Dec-2022	15-Dec-2022	28 days	10 days	✓	15-Dec-2022	40 days	0 days	✓
Aggregate Organics : Oil & Grease by Gravimetry										
Amber glass (hydrochloric acid) ML MAIN - Cycle-let Gen Chem and O&G	E567	05-Dec-2022	15-Dec-2022	28 days	10 days	✓	15-Dec-2022	40 days	0 days	✓
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate) ML MAIN - Cycle-let Gen Fecal A	E012.FC	05-Dec-2022	----	----	----		10-Dec-2022	30 hrs	121 hrs	× EHTR
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate) ML MAIN - Cycle-let Gen Fecal B	E012.FC	05-Dec-2022	----	----	----		10-Dec-2022	30 hrs	121 hrs	× EHTR
Microbiological Tests : Thermotolerant (Fecal) Coliform (MF-mFC)										
Sterile HDPE (Sodium thiosulphate) ML MAIN - Cycle-let Gen Fecal C	E012.FC	05-Dec-2022	----	----	----		10-Dec-2022	30 hrs	121 hrs	× EHTR
Physical Tests : pH by Meter										
HDPE ML MAIN - Cycle-let Gen Chem and O&G	E108	05-Dec-2022	10-Dec-2022	----	----		10-Dec-2022	0.25 hrs	2.25 hrs	× EHTR-FM

Matrix: **Water**

Evaluation: × = Holding time exceedance ; ✓ = Within Holding Time

Analyte Group / Container / Client Sample ID(s)	Method	Sampling Date	Extraction / Preparation				Analysis			
			Preparation Date	Holding Times Rec	Holding Times Actual	Eval	Analysis Date	Holding Times Rec	Holding Times Actual	Eval
Physical Tests : TSS by Gravimetry										
HDPE										
ML MAIN - Cycle-let Gen Chem and O&G	E160	05-Dec-2022	----	----	----		14-Dec-2022	7 days	9 days	× EHT

Legend & Qualifier Definitions

EHTR-FM: Exceeded ALS recommended hold time prior to sample receipt. Field Measurement recommended

EHTR: Exceeded ALS recommended hold time prior to sample receipt.

EHT: Exceeded ALS recommended hold time prior to analysis.

Rec. HT: ALS recommended hold time (see units).

Quality Control Parameter Frequency Compliance

The following report summarizes the frequency of laboratory QC samples analyzed within the analytical batches (QC lots) in which the submitted samples were processed. The actual frequency should be greater than or equal to the expected frequency.

Matrix: **Water**

Evaluation: × = *QC frequency outside specification*; ✓ = *QC frequency within specification.*

Quality Control Sample Type			Count		Frequency (%)		
Analytical Methods	*Method*	*QC Lot #*	*QC*	*Regular*	*Actual*	*Expected*	*Evaluation*
Laboratory Duplicates (DUP)							
Biochemical Oxygen Demand - 5 day	E550	774549	1	11	9.0	5.0	✓
pH by Meter	E108	774627	1	12	8.3	5.0	✓
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	775268	1	12	8.3	5.0	✓
TSS by Gravimetry	E160	776723	1	20	5.0	5.0	✓
Laboratory Control Samples (LCS)							
Biochemical Oxygen Demand - 5 day	E550	774549	1	11	9.0	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	779470	1	1	100.0	5.0	✓
Oil & Grease by Gravimetry	E567	779469	1	8	12.5	5.0	✓
pH by Meter	E108	774627	1	12	8.3	5.0	✓
TSS by Gravimetry	E160	776723	1	20	5.0	5.0	✓
Method Blanks (MB)							
Biochemical Oxygen Demand - 5 day	E550	774549	1	11	9.0	5.0	✓
Mineral Oil & Grease by Gravimetry	E567SG	779470	1	1	100.0	5.0	✓
Oil & Grease by Gravimetry	E567	779469	1	8	12.5	5.0	✓
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC	775268	1	12	8.3	5.0	✓
TSS by Gravimetry	E160	776723	1	20	5.0	5.0	✓

Methodology References and Summaries

The analytical methods used by ALS are developed using internationally recognized reference methods (where available), such as those published by US EPA, APHA Standard Methods, ASTM, ISO, Environment Canada, BC MOE, and Ontario MOE. Reference methods may incorporate modifications to improve performance (indicated by "mod").

Analytical Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Thermotolerant (Fecal) Coliform (MF-mFC)	E012.FC Calgary - Environmental	Water	APHA 9222 D (mod)	Following filtration (0.45 µm), and incubation at 44.5 ±0.2°C for 22-26 hours, colonies exhibiting characteristic morphology of the target organism are enumerated and confirmed.
pH by Meter	E108 Edmonton - Environmental	Water	APHA 4500-H (mod)	pH is determined by potentiometric measurement with a pH electrode, and is conducted at ambient laboratory temperature (normally 20 ± 5°C). For high accuracy test results, pH should be measured in the field within the recommended 15 minute hold time.
TSS by Gravimetry	E160 Edmonton - Environmental	Water	APHA 2540 D (mod)	Total Suspended Solids (TSS) are determined by filtering a sample through a glass fibre filter, following by drying of the filter at 104 ± 1°C, with gravimetric measurement of the filtered solids. Samples containing very high dissolved solid content (i.e. seawaters, brackish waters) may produce a positive bias by this method. Alternate analysis methods are available for these types of samples.
Biochemical Oxygen Demand - 5 day	E550 Edmonton - Environmental	Water	APHA 5210 B (mod)	Samples are diluted and incubated for a specified time period, after which the oxygen depletion is measured using a dissolved oxygen meter. Free chlorine is a negative interference in the BOD method; please advise ALS when free chlorine is present in samples.
Oil & Grease by Gravimetry	E567 Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane and the extract is evaporated to dryness. The residue is then weighed to determine Oil and Grease.
Mineral Oil & Grease by Gravimetry	E567SG Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane, followed by silica gel treatment after which the extract is evaporated to dryness. The residue is then weighed to determine Mineral Oil and Grease.
Animal & Vegetable Oil & Grease by Gravimetry	EC567A.SG Calgary - Environmental	Water	APHA 5520 (mod)	Animal & vegetable oil and grease is calculated as follows: Oil & Grease (gravimetric) minus Mineral Oil & Grease (gravimetric)

Preparation Methods	Method / Lab	Matrix	Method Reference	Method Descriptions
Oil & Grease Extraction for Gravimetry	EP567 Calgary - Environmental	Water	BC MOE Lab Manual (Oil & Grease) (mod)	The entire water sample is extracted with hexane by liquid-liquid extraction.

Chain of Custody (COC) / Analytical Request Form

www.alsglobal.com

Canada Toll Free: 1 800 668 9378

Affix ALS barcode label here (lab use only)

COC Number: 14 -

Page of

Report To		Report Format / Distribution	Select Service Level Below (Rush Turnaround Time (TAT) is not available for all tests)
Company:	Nasittuq Corp	Select Report Format: ☑ PDF ☑ EXCEL ☐ EDD (DIGITAL)	R ☑ Regular (Standard TAT if received by 3 pm - business days)
Contact:	Alaina Leslie	Quality Control (QC) Report with Report ☑ Yes ☐ No	P ☐ Priority (2-4 bus. days if received by 3pm) 50% surcharge - contact ALS to confirm TAT
Address:	275 Slater St Ottawa ON K1P 5H9	☑ Criteria on Report - provide details below if box checked	E ☐ Emergency (1-2 bus. days if received by 3pm) 100% surcharge - contact ALS to confirm TAT
Phone:	613-223-0629	Select Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	E2 ☐ Same day or weekend emergency - contact ALS to confirm TAT and surcharge
		Email 1 or Fax alaina.leslie@nasittuq.com	Specify Date Required for E2,E or P:
		Email 2 labresults@nasittuq.com	

Invoice To	Same as Report To ☐ Yes ☐ No	Invoice Distribution	
	Copy of Invoice with Report ☐ Yes ☐ No	Select Invoice Distribution: ☑ EMAIL ☐ MAIL ☐ FAX	
Company:		Email 1 or Fax labresults@nasittuq.com	
Contact:		Email 2 accounting@nasittuq.com	

Project Information		Oil and Gas Required Fields (client use)	
ALS Quote #:	Q89840	Approver ID:	Cost Center:
Job #:	NWS Sewage	GL Account:	Routing Code:
PO / AFE:		Activity Code:	
LSD:		Location:	

ALS Lab Work Order # (lab use only): EO2210828 | ALS Contact: E. Dobbin | Sampler: Kelly Bennett

Analysis Request

Indicate Filtered (F), Preserved (P) or Filtered and Preserved (F/P) below

ALS Sample # (lab use only)	Sample Identification and/or Coordinates (This description will appear on the report)	Date (dd-mmm-yy)	Time (hh:mm)	Sample Type	BOD, pH, TSS	O&G	Faecal Coliforms	Number of Containers
	MW MAIN - Cycle-let Gen Chem and O&G	* 5-Dec-22	08:30 AM	Effluent	R	R		4
	MW MAIN - Cycle-let Faecal A	5-Dec-22	08:30 AM	Effluent			R	1
	MW MAIN - Cycle-let Faecal B	* 5-Dec-22	08:30 AM	Effluent			R	1
	MW MAIN - Cycle-let Faecal C	* 5-Dec 22	08:30 AM	Effluent			R	1

Environmental Division
Edmonton
Work Order Reference
EO2210828

Telephone : +1 780 413 5227

Drinking Water (DW) Samples[1] (client use)	Special Instructions / Specify Criteria to add on report (client Use)
Are samples taken from a Regulated DW System? ☐ Yes ☑ No	NWS Nunavut Water Board Licence Criteria
Are samples for human drinking water use? ☐ Yes ☑ No	

SAMPLE CONDITION AS RECEIVED (lab use only)

Frozen ☐ | SIF Observations ☐ No | Ice packs ☐ Yes ☑ No | Custody seal intact ☐ Yes ☐ No | Cooling initiated ☐

INITIAL COOLER TEMPERATURES °C			FINAL COOLER TEMPERATURES °C		
7.6					

SHIPMENT RELEASE (client use)			INITIAL SHIPMENT RECEPTION (lab use only)			FINAL SHIPMENT RECEPTION (lab use only)		
Released by: *	Date:	Time:	Received by:	Date:	Time:	Received by:	Date:	Time:
				09-DEC-22	12:06			

REFER TO BACK PAGE FOR ALS LOCATIONS AND SAMPLING INFORMATION

WHITE - LABORATORY COPY YELLOW - CLIENT COPY

Failure to complete all portions of this form may delay analysis. Please fill in this form LEGIBLY. By the use of this form the user acknowledges and agrees with the Terms and Conditions as specified on the back page of the white - report copy.

1. If any water samples are taken from a Regulated Drinking Water (DW) System, please submit using an Authorized DW COC Form