

December 18, 2017

ISSUED FOR USE

FILE: 704-ENW.VENW03140-01

School District 68 (Nanaimo-Ladysmith)
395 Wakesiah Road
Nanaimo, BC V9R 3K6

Via Email: BHackwood@sd68.bc.ca; Chris.Baker@sd68.bc.ca

Attention: Mr. Brian Hackwood, Maintenance Manager

Subject: Domestic Water Testing (Lead) Inventory – Mount Benson Elementary

1.0 INTRODUCTION

Tetra Tech Canada Inc. (Tetra Tech) was retained School District 68 Nanaimo-Ladysmith (SD 68) to conduct a domestic water testing inventory at Mount Benson Elementary located in SD 68. Tetra Tech understands that the BC Ministry of Education has issued a directive to protect drinking water. The directive requires that a systematic investigation of public drinking water supplies at select schools in the District be undertaken. The investigation is based on procedures set forth by the Vancouver Island Health Authority (VIHA), modified per Health Canada guidelines, to ascertain risk and mitigation.

Tetra Tech understands that the sampling schedule, collection, testing and reporting of results needs to be completed by December 22, 2017 in order to allow sufficient time for SD 68 to implement mitigation measures prior to its deadline of March 31, 2018.

Carrie McVeigh, of SD 68, provided Tetra Tech with authorization to proceed with the inventory on October 24, 2017.

2.0 METHODOLOGY

Tetra Tech completed the domestic water testing inventory program at Mount Benson Elementary on November 27th, 2017. The 2017 sampling program was conducted as per the protocols established during the 2016 program. The methodologies employed during the field program are detailed in the following subsections.

2.1 Sampling Locations

Tetra Tech reviewed plans for the facility prior to commencing the field work to identify potential sampling locations. The facility was then assessed in the field and sampling locations were selected based on the probability of human consumption at a location. The sampling locations included one point that was closest to the location where the water supply enters the building, one that is the furthest point from where the water supply enters the building and from points where human consumption of water occurred or was reasonably likely to occur. The sampling locations for Mount Benson Elementary are shown on the attached Figure 1.

Drinking fountains and kitchen sinks were all considered to have a high probability of human consumption of water and were always sampled. Sinks with visible evidence of human consumption of water, such as water bottles, cups, or electric kettles were also considered to have a high probability of human consumption of water and were sampled. Although classroom sinks were considered to have a moderate probability of human consumption of water, only

representative samples were collected as per the direction of SD 68 Maintenance Manager, Mr. Brian Hackwood. Classroom laboratory and art room sinks, where present, were considered to have a low probability of human consumption of water so only representative samples were collected. Finally, washrooms and utility sinks, unless there was other evidence of human consumption of water (such as an electric kettle) were considered to be a low probability of human consumption of water and only representative samples were collected.

2.2 Drinking Water Sampling

Sampling was conducted in the early hours of Monday, November 27th, 2017 in order collect water samples representative of an approximate worse-case scenario of water that had remained in contact with the school's plumbing over the course of a weekend. Two samples were collected at each sample location; the first collected immediately prior to any water line flushing (0 second sample); the second collected after thirty seconds of water line flushing (30 second sample).

The process for the sequence of analysis for a sample location is as follows:

- Only the pre-flush (0 second) sample is initially submitted for laboratory analysis;
- If the analytical result exceeds the *Guidelines for Canadian Drinking Water Quality* (GCDWQ) Maximum Allowable Concentration (MAC), the 30 second sample would be submitted for further analysis; and
- If the 30 second sample analytical result exceeds the GCDWQ MAC, additional samples would be collected after flushing with cold water for 2 minutes and 5 minutes at a subsequent sampling event and both samples submitted for analysis.

Water samples were collected directly from the sample point into clean, labeled, new laboratory-supplied containers pre-charged with preservative for total lead. Sampling personnel wore new nitrile gloves prior to collecting each sample. Samples were kept in a cooler with ice after collection until being brought back to Tetra Tech's Nanaimo office, where samples not immediately submitted to the laboratory were stored in refrigerated conditions.

2.3 Analytical Testing

Maxxam is a Canadian Association for Laboratory Accreditation (CALA) accredited laboratory that is qualified to analyze the samples using British Columbia Ministry of Environment (MOE)-approved procedures. All water samples submitted were analyzed for total lead.

2.4 Quality Assurance / Quality Control

During the sampling program, Tetra Tech implemented a Quality Assurance/Quality Control (QA/QC) program to ensure the integrity of the sampling methodology and analytical testing. The QA/QC program adhered to Tetra Tech's in-house Quality Management System (QMS), which was designed to generate representative samples, minimize the potential for cross-contamination between sampling locations and samples, and reduce the potential for systematic bias.

The QA/QC program included the following tasks:

- Recording the results of field activities in the field concurrently with the activities;
- Use of clean, new sampling gloves at each sampling location;
- Placing samples into new, labeled laboratory-supplied containers;

- Transporting samples to Maxxam in chilled coolers using chain-of-custody procedures;
- Using a Canadian Association for Laboratory Accreditation (CALA) accredited laboratory that is qualified to analyze the samples using MOE-approved procedures;
- Independently verifying the sample concentrations flagged by Maxxam as being greater than Health Canada guidelines; and
- Conducting a review of this report by a qualified senior Tetra Tech professional to ensure that the report meets Tetra Tech technical and reporting requirements.

Laboratory Quality Assurance / Quality Control Program

Water samples were submitted to Maxxam, a CALA accredited laboratory. Laboratory testing was conducted using methods outlined in the British Columbia Environmental Laboratory Manual. Laboratory QA/QC reports are attached to the laboratory reports presented in Appendix B. Samples included in the QA/QC reports consist of laboratory batches and will include random samples from the lab report and potentially other projects to complete a batch.

The Laboratories noted any sample deficiencies, such as unacceptable headspace, broken jars or bottles, etc. As well, the laboratory measured the temperature of samples received by the laboratory in Burnaby.

3.0 ASSESSMENT STANDARDS

As per the guidance from the Vancouver Island Health Authority (VIHA), Tetra Tech compared the sample analytical results to the *Guidelines for Canadian Drinking Water Quality* (GCDWQ) published by Health Canada, February 2017. The guidelines list a Maximum Acceptable Concentration (MAC) for lead of 10 µg/L (0.010 mg/L). The MAC for lead is based on chronic effects and is intended to apply to average concentrations in water consumed for extended periods. No immediately toxic concentration for lead is listed, however exposure to lead should nevertheless be kept to a minimum.

4.0 ANALYTICAL RESULTS

Tetra Tech collected water samples from Mount Benson Elementary on November 27th, 2017. A total of 15 sample locations were identified; two samples were collected at each location (i.e., 0 second sample and 30 second sample). Fifteen pre-flush (0 second) samples were submitted for laboratory analysis of total lead.

Ten of the 0 second samples contained concentration of total lead below the GCDWQ MAC and five 0 second samples were greater than the guideline.

Sample MB02 was collected from the boy's water closet across from Classroom 109, MB03 was collected from a sink in Classroom 105, MB11 was collected from the girl's water closet across from Classroom 113, MB14 was collected from a drinking water fountain outside the gym and MB15 was collected from a sink in the boy's change room outside the gym. The 30 second samples for these locations were submitted for laboratory analysis of total lead.

The 30 second samples at all locations contained concentrations of total lead below the GCDWQ MAC.

Sampling locations are shown on Figure 1. Laboratory testing results for Mount Benson Elementary are summarized in the table below. The complete laboratory certificate is provided as Appendix B.

Table 1: Laboratory Testing Results

Sample ID	Sample Date	MAC	Total Lead (µg/L)
0 Second Samples			
MB01-0s	11/27/2017	10 µg/L	0.77
MB02-0s	11/27/2017		17.7
MB03-0s	11/27/2017		11.4
MB04-0s	11/27/2017		7.24
MB05-0s	11/27/2017		5.13
MB06-0s	11/27/2017		4.63
MB07-0s	11/27/2017		1.94
MB08-0s	11/27/2017		8.92
MB09-0s	11/27/2017		6.20
MB10-0s	11/27/2017		0.32
MB11-0s	11/27/2017		18.9
MB12-0s	11/27/2017		7.70
MB13-0s	11/27/2017		0.37
MB14-0s	11/27/2017		32.4
MB15-0s	11/27/2017	13.7	
30 Second Sample			
MB02-30s	11/27/2017	10 µg/L	3.95
MB03-30s	11/27/2017		1.41
MB11-30s	11/27/2017		4.76
MB14-30s	11/27/2017		8.78
MB15-30s	11/27/2017		2.58
Notes:	Grey Fill	Exceeds GCDWQ MAC	

5.0 DISCUSSION AND RECOMMENDATIONS

Tetra Tech's sampling program was based upon guidance from the Ministry of Health, found in the document *Guidance on Controlling Corrosion in Drinking Water Distribution Systems* (2009). The rationale is that for each sampling point, if the pre-flush (0 second) sample (Tier 1) contained elevated lead concentrations, it could indicate that the faucet or fittings are the likely be the source of lead. If a subsequent 30 second flush sample (Tier 2) contained elevated lead concentrations, the source of the lead would likely be the piping (plumbing) leading to the faucet; whereas low lead concentrations in the 30 second sample would further indicate that the source was likely the faucet and fittings. Finally, 2 and 5 minute flush samples (if required) should be drawing water directly from the water supply piping within the building and would indicate if flushing is feasible for lowering the lead concentration in water within the building.

The Health Canada guidance recommend that Tier 2 sampling (30 second samples) take place when Tier 1 sampling identifies more than 10% of sites with lead concentrations above the MAC, and then only at the 10% of sampling sites with the highest lead concentration. Rather, Tetra Tech ran every 30 second sample for locations where the 0 second sample was above the MAC to show that flushing was adequate to lower the lead concentration in the drinking water at each point of concern.

The guidance from the Ministry of Health recommended that samples be collected after the sampling points had been stagnant for a minimum of 8 hours but not longer than 24 hours in order to simulate the worst case daily scenario for lead in drinking water consumption. Based on guidance from VIHA, SD 68 directed Tetra Tech to collect samples Monday mornings prior to any staff or students arriving at the facilities in order to simulate a worst-case scenario for stagnant water. As such, lead concentrations reported represent what could be expected following a weekend and would likely be lower on subsequent weekday mornings.

Ten of the 15 pre-flush (0 second) samples collected at Mount Benson Elementary contained concentrations of lead below the GCDWQ MAC. Lead concentrations at sample locations MB02, MB03, MB11, MB14 and MB15 exceeded the MAC for the 0 second samples but were below the guideline for the 30 second samples.

As previously noted, where lead concentrations are elevated in 0 second samples, the contributing source is likely the fixture (i.e., faucet or fittings). Where the 30 second sample is also elevated the source is likely the plumbing immediately behind the fixture. Since lead concentrations at locations MB02, MB03, MB11, MB14 and MB15 exceeded the MAC for the 0 second sample but not for the 30 second sample, there is potentially a lead source in the fixtures.

Flushing is adequate to lower the lead concentrations at MB02, MB03, MB11, MB14 and MB15. During sample collection, Tetra Tech noted signage throughout the facility stating “Water Quality – First thing in the morning... Run the water for two minutes before drinking. Throughout the day... Let the water run until it is cold before drinking.” Tetra Tech recommends that this signage be maintained at each point where drinking water could be consumed and that this procedure continues to be followed as it promotes drinking water safety awareness.

6.0 SUMMARY AND CONCLUSIONS

Ten pre-flush (0 second) samples collected at Mount Benson contained concentrations of total lead below the GCDWQ MAC of 10µg/L (0.010 mg/L). Five samples (MB02, MB03, MB11, MB14 and MB15) had a concentration of lead exceeding the GCDWQ for the 0 second sample but were below for the 30 second samples.

Tetra Tech recommends that SD 68 continue with its ongoing procedure of conducting a 2 minute flush at each drinking water consumption point each morning; and running taps/faucets until cold prior to consuming water. Tetra Tech noted signage at most drinking water consumption points stating “Water Quality – First thing in the morning... Run the water for two minutes before drinking. Throughout the day... Let the water run until it is cold before drinking.”

Tetra Tech recommends that the facility be inspected on a routine basis to ensure that the above noted signage is present and in good condition at each point where drinking water could be consumed. Tetra Tech further recommends that a bulletin be provided to staff summarizing the drinking water quality results at the facility and reminding them of the above procedure. Staff should then instruct students and visitors in the drinking water procedure.

7.0 CLOSURE

This report has been prepared based on the scope of work and for the use of School District 68, which includes distribution as required for the purposes for which this assessment was commissioned. The assessment has been carried out in accordance with generally accepted professional practice. No other warranty is made, either express or implied. Professional judgment has been applied in developing the recommendations in this report.

This report was prepared by personnel with professional experience in investigations of this nature and who specifically conducted the investigations at this Site. Reference should be made to the 'Geoenvironmental Report – Limitations on the Use of this Document' attached in Appendix A that forms a part of this report.

We trust this report meets your present requirements. If you have any questions or comments, please contact the undersigned.

Respectfully submitted,
Tetra Tech Canada Inc.



Shawneen Walker, B.Sc., R.P.Bio., P.Biol.
Biologist
Environment Practice
Direct Line: 250.756.3966 x245
Shawneen.Walker@tetrattech.com



Nigel Cavanagh, M.Sc., R.P.Bio., P.Biol.
Senior Aquatic Biologist
Environment Practice
Direct Line: 250.756.3966 x240
Nigel.Cavanagh@tetrattech.com

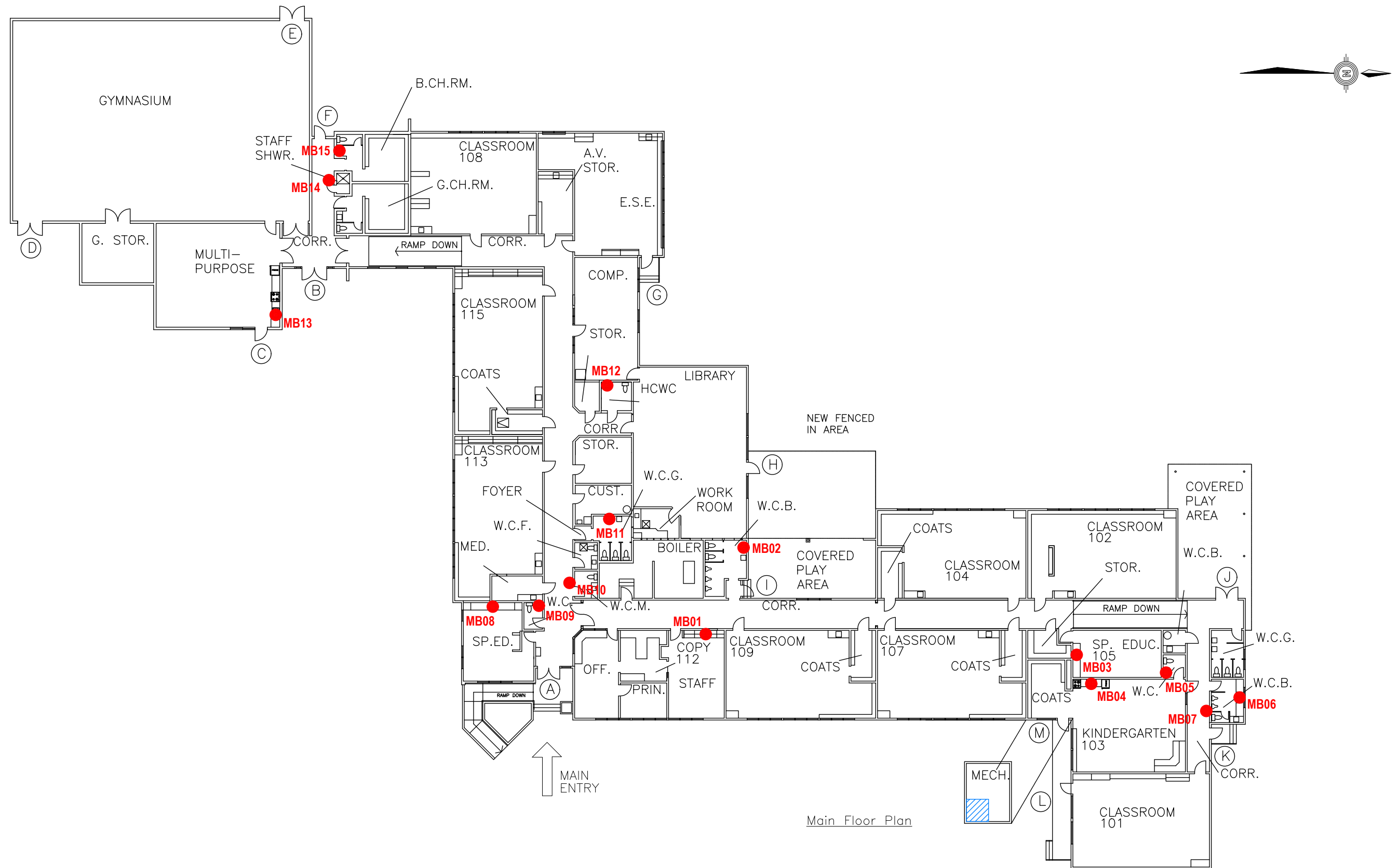
/dr

Attachments: Figure 1 - Mount Benson Elementary Sample Locations
Appendix A - Limitations on the Use of this Document
Appendix B - Laboratory Report

FIGURES

Figure 1 Mount Benson Elementary Sample Locations



Q:\Edmonton\Drafting\PROJECTS\704-ENW\VENWEN\VENW03140-01\02_AcadENW\VENW03140-01\Figure 1_Mount Benson.dwg [FIGURE 1] December 18, 2017 - 8:31:18 am (BY: DAS, DEBASHIS)



NOTES:

- 1) BASE DRAWING IS PROVIDED BY CLIENT
- 2) DRAWING NOT TO SCALE

LEGEND:

-  - WATER ENTRY POINT
-  - SAMPLE LOCATION

CLIENT

School District 68



DOMESTIC WATER TESTING (LEAD) INVENTORY
MOUNT BENSON ELEMENTARY SCHOOL
4355 JINGLE POT ROAD, NANAIMO, BC

MOUNT BENSON ELEMENTARY SCHOOL
SAMPLE LOCATIONS

PROJECT NO. ENW.VENW03140-01	DWN DBD	CKD SW	REV 0
OFFICE EDM	DATE December 2017		

Figure 1

APPENDIX A

LIMITATIONS ON THE USE OF THIS DOCUMENT

LIMITATIONS ON USE OF THIS DOCUMENT

GEOENVIRONMENTAL

1.1 USE OF DOCUMENT AND OWNERSHIP

This document pertains to a specific site, a specific development, and a specific scope of work. The document may include plans, drawings, profiles and other supporting documents that collectively constitute the document (the "Professional Document").

The Professional Document is intended for the sole use of TETRA TECH's Client (the "Client") as specifically identified in the TETRA TECH Services Agreement or other Contractual Agreement entered into with the Client (either of which is termed the "Contract" herein). TETRA TECH does not accept any responsibility for the accuracy of any of the data, analyses, recommendations or other contents of the Professional Document when it is used or relied upon by any party other than the Client, unless authorized in writing by TETRA TECH.

Any unauthorized use of the Professional Document is at the sole risk of the user. TETRA TECH accepts no responsibility whatsoever for any loss or damage where such loss or damage is alleged to be or, is in fact, caused by the unauthorized use of the Professional Document.

Where TETRA TECH has expressly authorized the use of the Professional Document by a third party (an "Authorized Party"), consideration for such authorization is the Authorized Party's acceptance of these Limitations on Use of this Document as well as any limitations on liability contained in the Contract with the Client (all of which is collectively termed the "Limitations on Liability"). The Authorized Party should carefully review both these Limitations on Use of this Document and the Contract prior to making any use of the Professional Document. Any use made of the Professional Document by an Authorized Party constitutes the Authorized Party's express acceptance of, and agreement to, the Limitations on Liability.

The Professional Document and any other form or type of data or documents generated by TETRA TECH during the performance of the work are TETRA TECH's professional work product and shall remain the copyright property of TETRA TECH.

The Professional Document is subject to copyright and shall not be reproduced either wholly or in part without the prior, written permission of TETRA TECH. Additional copies of the Document, if required, may be obtained upon request.

1.2 ALTERNATIVE DOCUMENT FORMAT

Where TETRA TECH submits electronic file and/or hard copy versions of the Professional Document or any drawings or other project-related documents and deliverables (collectively termed TETRA TECH's "Instruments of Professional Service"), only the signed and/or sealed versions shall be considered final. The original signed and/or sealed electronic file and/or hard copy version archived by TETRA TECH shall be deemed to be the original. TETRA TECH will archive a protected digital copy of the original signed and/or sealed version for a period of 10 years.

Both electronic file and/or hard copy versions of TETRA TECH's Instruments of Professional Service shall not, under any circumstances, be altered by any party except TETRA TECH. TETRA TECH's Instruments of Professional Service will be used only and exactly as submitted by TETRA TECH.

Electronic files submitted by TETRA TECH have been prepared and submitted using specific software and hardware systems. TETRA TECH makes no representation about the compatibility of these files with the Client's current or future software and hardware systems.

1.3 STANDARD OF CARE

Services performed by TETRA TECH for the Professional Document have been conducted in accordance with the Contract, in a manner

consistent with the level of skill ordinarily exercised by members of the profession currently practicing under similar conditions in the jurisdiction in which the services are provided. Professional judgment has been applied in developing the conclusions and/or recommendations provided in this Professional Document. No warranty or guarantee, express or implied, is made concerning the test results, comments, recommendations, or any other portion of the Professional Document.

If any error or omission is detected by the Client or an Authorized Party, the error or omission must be immediately brought to the attention of TETRA TECH.

1.4 DISCLOSURE OF INFORMATION BY CLIENT

The Client acknowledges that it has fully cooperated with TETRA TECH with respect to the provision of all available information on the past, present, and proposed conditions on the site, including historical information respecting the use of the site. The Client further acknowledges that in order for TETRA TECH to properly provide the services contracted for in the Contract, TETRA TECH has relied upon the Client with respect to both the full disclosure and accuracy of any such information.

1.5 INFORMATION PROVIDED TO TETRA TECH BY OTHERS

During the performance of the work and the preparation of this Professional Document, TETRA TECH may have relied on information provided by persons other than the Client.

While TETRA TECH endeavours to verify the accuracy of such information, TETRA TECH accepts no responsibility for the accuracy or the reliability of such information even where inaccurate or unreliable information impacts any recommendations, design or other deliverables and causes the Client or an Authorized Party loss or damage.

1.6 GENERAL LIMITATIONS OF DOCUMENT

This Professional Document is based solely on the conditions presented and the data available to TETRA TECH at the time the data were collected in the field or gathered from available databases.

The Client, and any Authorized Party, acknowledges that the Professional Document is based on limited data and that the conclusions, opinions, and recommendations contained in the Professional Document are the result of the application of professional judgment to such limited data.

The Professional Document is not applicable to any other sites, nor should it be relied upon for types of development other than those to which it refers. Any variation from the site conditions present, or variation in assumed conditions which might form the basis of design or recommendations as outlined in this report, at or on the development proposed as of the date of the Professional Document requires a supplementary investigation and assessment.

TETRA TECH is neither qualified to, nor is it making, any recommendations with respect to the purchase, sale, investment or development of the property, the decisions on which are the sole responsibility of the Client.

1.7 NOTIFICATION OF AUTHORITIES

In certain instances, the discovery of hazardous substances or conditions and materials may require that regulatory agencies and other persons be informed and the client agrees that notification to such bodies or persons as required may be done by TETRA TECH in its reasonably exercised discretion.

APPENDIX B

LABORATORY REPORT

Your Project #: ENW.VENW03140-01

Attention: Shawneen Walker

TETRA TECH CANADA INC.
#1 - 4376 BOBAN DRIVE
NANAIMO, BC
Canada V9T 6A7

Your C.O.C. #: 540796-14-01, 540796-15-01, 540796-16-01

Report Date: 2017/12/08

Report #: R2488836

Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A8635

Received: 2017/12/07, 08:40

Sample Matrix: Water
Samples Received: 24

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by CRC ICPMS (total)	19	2017/12/07	2017/12/07	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by CRC ICPMS (total)	5	2017/12/07	2017/12/08	BBY7SOP-00003,	BCLM2005,EPA6020bR2m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

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

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

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

Your Project #: ENW.VENW03140-01

Attention: Shawneen Walker

TETRA TECH CANADA INC.
#1 - 4376 BOBAN DRIVE
NANAIMO, BC
Canada V9T 6A7

Your C.O.C. #: 540796-14-01, 540796-15-01, 540796-16-01

Report Date: 2017/12/08

Report #: R2488836

Version: 2 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A8635

Received: 2017/12/07, 08:40

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Letitia Prefontaine, B.Sc., Senior Project Manager

Email: LPrefontaine@maxxam.ca

Phone# (604)639-2616

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B7A8635
Report Date: 2017/12/08

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID			SQ1646	SQ1647	SQ1648	SQ1649	SQ1650	SQ1651		
Sampling Date			2017/11/27	2017/11/27	2017/11/27	2017/11/27	2017/11/27	2017/11/27		
COC Number			540796-14-01	540796-14-01	540796-14-01	540796-14-01	540796-14-01	540796-14-01		
	UNITS	MAC	QW11-30S	SD06-30S	SD07-30S	SD08-30S	SD09-30S	SD10-30S	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	3.07	3.67	18.9	4.89	3.22	2.97	0.20	8855544
-----------------	------	----	------	------	------	------	------	------	------	---------

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SQ1652	SQ1653	SQ1654	SQ1655	SQ1656	SQ1657		
Sampling Date			2017/11/27	2017/11/27	2017/11/27	2017/11/27	2017/11/27	2017/11/27		
COC Number			540796-14-01	540796-14-01	540796-14-01	540796-14-01	540796-15-01	540796-15-01		
	UNITS	MAC	SD11-30S	SDDUP-30S	WS02-30S	WS03-30S	WS07-30S	WS23-30S	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	1.91	6.35	2.51	1.42	6.94	49.5	0.20	8855544
-----------------	------	----	------	------	------	------	------	------	------	---------

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SQ1658	SQ1659	SQ1660	SQ1661	SQ1662	SQ1663		
Sampling Date			2017/11/27	2017/11/27	2017/11/27	2017/11/27	2017/11/27	2017/11/27		
COC Number			540796-15-01	540796-15-01	540796-15-01	540796-15-01	540796-15-01	540796-15-01		
	UNITS	MAC	MB02-30S	MB03-30S	MB11-30S	MB14-30S	MB15-30S	DB12-30S	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	3.95	1.41	4.76	8.78	2.58	3.74	0.20	8855544
-----------------	------	----	------	------	------	------	------	------	------	---------

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SQ1664		SQ1665	SQ1671	SQ1672	SQ1673		
Sampling Date			2017/11/27		2017/11/27	2017/11/27	2017/11/27	2017/11/27		
COC Number			540796-15-01		540796-15-01	540796-16-01	540796-16-01	540796-16-01		
	UNITS	MAC	DB13-30S	QC Batch	DB14-30S	DB15-30S	DB16-30S	SD12-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	6.00	8855544	11.2	14.2	2.19	39.4	0.20	8855729
-----------------	------	----	------	---------	------	------	------	------	------	---------

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Job #: B7A8635
Report Date: 2017/12/08

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01

ELEMENTS BY ATOMIC SPECTROSCOPY (WATER)

Maxxam ID			SQ1674		
Sampling Date			2017/11/27		
COC Number			540796-16-01		
	UNITS	MAC	SD12-30S	RDL	QC Batch
Total Metals by ICPMS					
Total Lead (Pb)	ug/L	10	5.99	0.20	8855729
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					

Maxxam Job #: B7A8635
Report Date: 2017/12/08

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01

GENERAL COMMENTS

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

Package 1	6.7°C
-----------	-------

Samples received with incomplete Chain of Custody. Sampling times not provided.

MAC: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)

It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.

Results relate only to the items tested.

Maxxam Job #: B7A8635
Report Date: 2017/12/08

QUALITY ASSURANCE REPORT

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8855544	Total Lead (Pb)	2017/12/07	96	80 - 120	94	80 - 120	<0.20	ug/L	3.5	20
8855729	Total Lead (Pb)	2017/12/08	105	80 - 120	103	80 - 120	<0.20	ug/L	2.0	20

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

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

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

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

Maxxam Job #: B7A8635
Report Date: 2017/12/08

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Rob Reinert, B.Sc., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation o/a Maxxam Analytics
4605 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6265 Fax: (604) 731 2386 www.maxxam.ca

Page 1 of 3

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Shawneen Walker	Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
Phone	(250) 756-2256 x	Phone		Project Name	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Site #	
				Sampled By	



Bottle Order #:
540796
Project Manager
Letitia Prefontaine

Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:	
<input type="checkbox"/> CSR <input checked="" type="checkbox"/> CCME <input checked="" type="checkbox"/> BC Water Quality <input type="checkbox"/> Other														Please provide advance notice for rush projects	
														Regular (Standard) TAT: (will be applied if Rush TAT is not specified). Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
														Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: <input type="checkbox"/> Rush Confirmation Number: (call lab for #)	

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y/N)
1	QW11-30s	17/11/27		Water	X
2	SD06-30s				
3	SD07-30s				
4	SD08-30s				
5	SD09-30s				
6	SD10-30s				
7	SD11-30s				
8	SD Dup-30s				
9	WS02-30s				
10	WS03-30s				

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only		
Shawneen Walker		17/12/06	07:00						Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
									<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Shawneen Walker	Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
Phone	(250) 756-2256 x	Phone		Project Name	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Site #	
				Sampled By	



B7A8635_COC



Bottle Order #:



Project Manager

Letitia Prefontaine

Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:			
<input type="checkbox"/> CSR <input checked="" type="checkbox"/> CCME <input checked="" type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____														Please provide advance notice for rush projects Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____ Rush Confirmation Number: _____ (call lab for #)			
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM																	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metal Field Filtered ? (Y/N)											# of Bottles	Comments
1	WS07-30s	17/11/27		Water	X											1	
2	WS23-30s																
3	MB02-30s																
4	MB03-30s																
5	MB11-30s																
6	MB14-30s																
7	MB15-30s																
8	DB12-30s																
9	DB13-30s																
10	DB14-30s																

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# Jars used and not submitted	Lab Use Only		
Shawneen Walker		17/12/05	07:00						Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
									<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

White: Maxxam Yellow: Client

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
Phone	(250) 756-2256 x	Phone		Project Name	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Site #	
				Sampled By	



Project Manager
Letitia Prefontaine

Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:			
<input type="checkbox"/> CSR <input checked="" type="checkbox"/> CCME <input checked="" type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____														Please provide advance notice for rush projects Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____ <input type="checkbox"/> Rush Confirmation Number: _____ (call lab for #)			
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM																	
	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)										# of Bottles	Comments
1		DB15-30s	17/11/27		Water	X										1	
2		DB16-30s	"		"	"										1	
3																	
4		SD12-0s	"		"	"										1	
5		SD12-30s	"		"	"										1	
6																	
7																	
8																	
9																	
10																	

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only		
Shawneen Walker		17/12/25	07:00						Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
									<input type="checkbox"/>		<input type="checkbox"/> Yes <input type="checkbox"/> No

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Your Project #: ENW.VENW03140-01

Attention: Shawneen Walker

TETRA TECH CANADA INC.
#1 - 4376 BOBAN DRIVE
NANAIMO, BC
Canada V9T 6A7

Your C.O.C. #: 540796-06-01, 540796-07-01, 540796-08-01, 540796-09-01, 540796-10-01, 540796-11-01, 540796-12-01

Report Date: 2017/12/05
Report #: R2486758
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A6034

Received: 2017/11/28, 08:55

Sample Matrix: DRINKING WATER
Samples Received: 56

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by CRC ICPMS (total)	34	N/A	2017/12/02	BBY7SOP-00003,	BCLM2005,EPA6020bR2m
Elements by CRC ICPMS (total)	22	N/A	2017/12/04	BBY7SOP-00003,	BCLM2005,EPA6020bR2m

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported; unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

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

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

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

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

Your Project #: ENW.VENW03140-01

Attention: Shawneen Walker

TETRA TECH CANADA INC.
#1 - 4376 BOBAN DRIVE
NANAIMO, BC
Canada V9T 6A7

Your C.O.C. #: 540796-06-01, 540796-07-01, 540796-08-01, 540796-09-01, 540796-10-01, 540796-11-01, 540796-12-01

Report Date: 2017/12/05
Report #: R2486758
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B7A6034

Received: 2017/11/28, 08:55

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Letitia Prefontaine, B.Sc., Senior Project Manager

Email: LPrefontaine@maxxam.ca

Phone# (604)639-2616

=====

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7002		SO7003	SO7004	SO7005		
Sampling Date			2017/11/27		2017/11/27	2017/11/27	2017/11/27		
COC Number			540796-06-01		540796-06-01	540796-06-01	540796-06-01		
	UNITS	MAC	WS01-OS	QC Batch	WS02-OS	WS03-OS	WS04-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	0.79	8848411	13.0	17.1	9.66	0.20	8848362
-----------------	------	----	------	---------	------	------	------	------	---------

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7006	SO7007	SO7008	SO7009		SO7010		
Sampling Date			2017/11/27	2017/11/27	2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-06-01	540796-06-01	540796-06-01	540796-06-01		540796-06-01		
	UNITS	MAC	WS05-OS	WS06-OS	WS07-OS	WS08-OS	QC Batch	WS09-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	9.07	3.66	22.1	0.26	8848333	3.60	0.20	8848362
-----------------	------	----	------	------	------	------	---------	------	------	---------

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7011	SO7016	SO7017	SO7018		SO7019		
Sampling Date			2017/11/27	2017/11/27	2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-06-01	540796-07-01	540796-07-01	540796-07-01		540796-07-01		
	UNITS	MAC	WS10-OS	WS11-OS	WS12-OS	WS13-OS	QC Batch	WS14-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	3.42	1.93	0.47	0.22	8848411	1.73	0.20	8848362
-----------------	------	----	------	------	------	------	---------	------	------	---------

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SO7020		SO7029	SO7030		SO7031		
Sampling Date			2017/11/27		2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-07-01		540796-08-01	540796-08-01		540796-08-01		
	UNITS	MAC	WS15-OS	QC Batch	WS22-OS	WS23-OS	QC Batch	WS24-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	0.74	8848362	3.56	20.8	8848333	1.25	0.20	8848362
-----------------	------	----	------	---------	------	------	---------	------	------	---------

No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7032		SO7033		SO7034	SO7035		
Sampling Date			2017/11/27		2017/11/27		2017/11/27	2017/11/27		
COC Number			540796-08-01		540796-08-01		540796-08-01	540796-08-01		
	UNITS	MAC	WS25-OS	QC Batch	WS26-OS	QC Batch	WS27-OS	MB01-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	2.12	8848411	3.70	8848362	0.92	0.77	0.20	8848411
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7036	SO7037		SO7042	SO7043	SO7044		
Sampling Date			2017/11/27	2017/11/27		2017/11/27	2017/11/27	2017/11/27		
COC Number			540796-08-01	540796-08-01		540796-09-01	540796-09-01	540796-09-01		
	UNITS	MAC	MB02-OS	MB03-OS	QC Batch	MB04-OS	MB05-OS	MB06-OS	RDL	QC Batch

Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	17.7	11.4	8848362	7.24	5.13	4.63	0.20	8848333
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam ID			SO7045		SO7046		SO7047		SO7048		
Sampling Date			2017/11/27		2017/11/27		2017/11/27		2017/11/27		
COC Number			540796-09-01		540796-09-01		540796-09-01		540796-09-01		
	UNITS	MAC	MB07-OS	QC Batch	MB08-OS	QC Batch	MB09-OS	QC Batch	MB10-OS	RDL	QC Batch

Total Metals by ICPMS											
Total Lead (Pb)	ug/L	10	1.94	8848362	8.92	8848333	6.20	8848362	0.32	0.20	8848411
No Fill	No Exceedance										
Grey	Exceeds 1 criteria policy/level										
Black	Exceeds both criteria/levels										
RDL = Reportable Detection Limit											

Maxxam ID			SO7049		SO7050	SO7051		SO7052		
Sampling Date			2017/11/27		2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-09-01		540796-09-01	540796-09-01		540796-10-01		
	UNITS	MAC	MB11-OS	QC Batch	MB12-OS	MB13-OS	QC Batch	MB14-OS	RDL	QC Batch

Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	18.9	8848411	7.70	0.37	8848362	32.4	0.20	8848333
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam ID			SO7053		SO7054	SO7055		SO7056		
Sampling Date			2017/11/27		2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-10-01		540796-10-01	540796-10-01		540796-10-01		
	UNITS	MAC	MB15-OS	QC Batch	DB01-OS	DB02-OS	QC Batch	DB03-OS	RDL	QC Batch

Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	13.7	8848333	3.23	8.49	8848362	4.75	0.20	8848411
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7057	SO7058		SO7059		SO7060		
Sampling Date			2017/11/27	2017/11/27		2017/11/27		2017/11/27		
COC Number			540796-10-01	540796-10-01		540796-10-01		540796-10-01		
	UNITS	MAC	DB04-OS	DB05-OS	QC Batch	DB06-OS	QC Batch	DB07-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	1.55	1.20	8848362	3.92	8848333	3.65	0.20	8848411
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SO7061		SO7062	SO7063		SO7064		
Sampling Date			2017/11/27		2017/11/27	2017/11/27		2017/11/27		
COC Number			540796-10-01		540796-11-01	540796-11-01		540796-11-01		
	UNITS	MAC	DB08-OS	QC Batch	DB09-OS	DB10-OS	QC Batch	DB11-OS	RDL	QC Batch

Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	4.72	8848362	0.81	1.19	8848411	3.08	0.20	8848944
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam ID			SO7065	SO7066		SO7067		SO7068		
Sampling Date			2017/11/27	2017/11/27		2017/11/27		2017/11/27		
COC Number			540796-11-01	540796-11-01		540796-11-01		540796-11-01		
	UNITS	MAC	DB12-OS	DB13-OS	QC Batch	DB14-OS	QC Batch	DB15-OS	RDL	QC Batch

Total Metals by ICPMS											
Total Lead (Pb)		ug/L	10	125	41.2	8848944	35.9	8848411	18.2	0.20	8848944
No Fill		No Exceedance									
Grey		Exceeds 1 criteria policy/level									
Black		Exceeds both criteria/levels									
RDL = Reportable Detection Limit											

Maxxam ID			SO7069	SO7070		SO7071	SO7072		
Sampling Date			2017/11/27	2017/11/27		2017/11/27	2017/11/27		
COC Number			540796-11-01	540796-11-01		540796-11-01	540796-12-01		
	UNITS	MAC	DB16-OS	DB17-OS	QC Batch	DB18-OS	WS28-OS	RDL	QC Batch

Total Metals by ICPMS									
Total Lead (Pb)	ug/L	10	19.1	7.95	8848944	0.83	9.57	0.20	8850025
No Fill	No Exceedance								
Grey	Exceeds 1 criteria policy/level								
Black	Exceeds both criteria/levels								
RDL = Reportable Detection Limit									

Maxxam ID			SO7073		
Sampling Date			2017/11/27		
COC Number			540796-12-01		
	UNITS	MAC	WS29-OS	RDL	QC Batch

Total Metals by ICPMS						
Total Lead (Pb)		ug/L	10	8.73	0.20	8848944
No Fill	No Exceedance					
Grey	Exceeds 1 criteria policy/level					
Black	Exceeds both criteria/levels					
RDL = Reportable Detection Limit						

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

GENERAL COMMENTS

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

Package 1	8.7°C
Package 2	10.3°C

Samples in one of the two coolers received were over temperature (past 10 degree average).

Samples received with incomplete Chain of Custody. Sampling times not provided.

All Chain of Custodies except 540796-06-01 were received with no relinquished date, time or signature.

MAC: The guidelines that have been included in this report have been taken from the Canadian Drinking Water Quality Summary Table, February 2017.

Criteria A = Maximum Acceptable Concentration (MAC) / Criteria B = Aesthetic Objectives (AO) / Criteria C = Operational Guidance Values (OG)

It is recommended to consult these guidelines when interpreting your data since there are non-numerical guidelines that are not included on this report.

Turbidity Guidelines:

1. Chemically assisted filtration: less than or equal to 0.3 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 1.0 NTU at any time.
2. Slow sand / diatomaceous earth filtration: less than or equal to 1.0 NTU in 95% of the measurements or 95% of the time each month. Shall not exceed 3.0 NTU at any time.
3. Membrane filtration: less than or equal to 0.1 NTU in 99% of the measurements made or at least 99% of the time each calendar month. Shall not exceed 0.3 NTU at any time.

Results relate only to the items tested.

Maxxam Job #: B7A6034
Report Date: 2017/12/05

QUALITY ASSURANCE REPORT

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8848333	Total Lead (Pb)	2017/12/04	100	80 - 120	99	80 - 120	<0.20	ug/L	2.0	20
8848362	Total Lead (Pb)	2017/12/02	93	80 - 120	98	80 - 120	<0.20	ug/L	0.22	20
8848411	Total Lead (Pb)	2017/12/02	98	80 - 120	100	80 - 120	<0.20	ug/L	0.76	20
8848944	Total Lead (Pb)	2017/12/04	NC	80 - 120	98	80 - 120	<0.20	ug/L	3.2	20
8850025	Total Lead (Pb)	2017/12/04	99	80 - 120	98	80 - 120	<0.20	ug/L	1.6	20

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

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

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

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

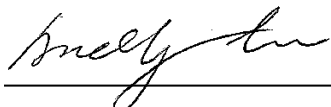
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

Maxxam Job #: B7A6034
Report Date: 2017/12/05

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03140-01
Sampler Initials: BB



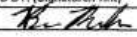
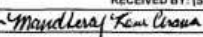
VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Andy Lu, Ph.D., P.Chem., Scientific Specialist

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE TO:		Report Information		Project Information				
Company Name #1433 TETRA TECH CANADA INC.		Company Name Shawneen Walker		Quotation # B60578				
Contact Name Shawneen Walker		Contact Name Shawneen Walker		P.O. #		Title Order #: 540796		
Address #1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7		Address		Project # ENW.VENW03140-01		Object Manager		
Phone (250) 756-2256 x Fax (250) 756-2686 x		Phone Fax		Project Name		Site # BB		
Email Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		Email Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		Sampled By		 C8540796-06-01		
Regulatory Criteria: <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				
				Turnaround Time (TAT) Required: Please provide advance notice for rush projects. Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 7 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____ Rush Confirmation Number: _____ (call lab for #)				
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM		Metals Field Filtered ? (Y/N) Lead						# of Bottles
								Comments
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix				
1	WS01-0s	27-Nov-17		Water	✓			
2	WS02-0s				✓			
3	WS03-0s				✓			
4	WS04-0s				✓			
5	WS05-0s				✓			
6	WS06-0s				✓			
7	WS07-0s				✓			
8	WS08-0s				✓			
9	WS09-0s				✓			
10	WS00-0s				✓			
RELINQUISHED BY: (Signature/Print) 		Date: (YY/MM/DD) 12/11/22	Time 2:00pm	RECEIVED BY: (Signature/Print) 		Date: (YY/MM/DD) 20/11/28	Time 8:55	
				# jars used and not submitted 4-09 MON 20/11/28		Lab Use Only		
						Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 9,9,8 (ICE PRESENT)	
						Custody Seal Intact on Cooler? N/A <input type="checkbox"/> Yes <input type="checkbox"/> No		
<p>* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</p> <p>* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p>								
						White: Maxxam	Yellow: Client	

10, 10, 11 (ICE N/A)



Maxxam Analytics International Corporation o/a Maxxam Analytics
4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:				Report Information				Project Information					
Company Name: #1433 TETRA TECH CANADA INC.				Company Name: Shawneen Walker				Quotation #: B60578					
Contact Name: Shawneen Walker				Contact Name: Shawneen Walker				P.O. #: ENW.VENW03140-01					
Address: #1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7				Address:				Project #: ENW.VENW03140-01					
Phone: (250) 756-2256 x Fax: (250) 756-2686 x				Phone: Fax:				Project Name:					
Email: Shawneen.Walker@tetratech.com; EBA.Labdata@tetra				Email: Shawneen.Walker@tetratech.com; EBA.Labdata@tetra				Site #: BB					
Regulatory Criteria: <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other				Special Instructions:				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)					
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM				Metals Field Filtered? (Y/N) Lead HOLD				Turnaround Time (TAT) Required: Please provide advance notice for rush projects					
								Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: <input type="checkbox"/> Rush Confirmation Number: (call lab for #)					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix							# of Bottles	Comments	
1	WS11-0s	27-Nov-17		Water									
2	WS12-0s												
3	WS13-0s												
4	WS14-0s												
5	WS15-0s												
6	WS16-0s												
7	WS17-0s												
8	WS18-0s												
9	WS19-0s												
10	WS20-0s												
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only				
Mandhuja Kaur Chana				Mandhuja Kaur Chana		2017/11/28	8:55	4-09 MON 2017/11/28	Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 9.9.8 (KE PRESENT)	Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No		
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS												White: Maxxam	Yellow: Client
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.												10, 10, 11 (KE N/A)	

Maxxam Analytics International Corporation o/a Maxxam Analytics

INVOICE TO:		Report Information		Project Information		Page 1 of 1			
Company Name #1433 TETRA TECH CANADA INC.		Company Name Shawneen Walker		Quotation # B60578		 B7A6034_COC			
Contact Name Shawneen Walker		Contact Name Shawneen Walker		P.O. #					
Address #1 - 4376 BOBAN DRIVE		Address		Project # ENW.VENW03140-01		Bottle Order #:			
NANAIMO BC V9T 6A7				Project Name		540796			
Phone (250) 756-2256 x Fax (250) 756-2686 x		Phone Fax		Site #		Project Manager Letitia Prafontaine			
Email Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		Email Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		Sampled By		 C8540796-08-01			
Regulatory Criteria: <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
				ANALYSIS REQUESTED (PLEASE BE SPECIFIC) <div style="display: flex; justify-content: space-around; align-items: center;"> Metals Field Filtered ? (Y/N) <div style="border-left: 1px solid black; padding-left: 10px;"> Lead HOLD HCLD </div> </div>				Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
								Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____ Rush Confirmation Number: _____ (call lab for #)	
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM									
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix					# of Bottles
1	WS21-05	27-Nov-17		Water					
2	WS22-05				✓				
3	WS23-05				✓				
4	WS24-05				✓				
5	WS25-05				✓				
6	WS26-05				✓				
7	WS27-05				✓				
8	MB01-05				✓				
9	MB02-05				✓				
10	MB03-05				✓				
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only
				<i>Mandhuang Kaur (Chana MANDHERA) KAURCHANY</i>		2017/11/28	8:55		Lab Use Only Time Sensitive <input type="checkbox"/> Temperature (°C) on Receipt 9.9.8 (ICE PRESENT) NA Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No
<small>* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</small> <small>** IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</small>									
<small>While Maxxam Yellow Client</small>									

10, 10, 11 (ICE N/A)



Maxxam Analytics International Corporation o/a Maxxam Analytics
4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-5266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Shawneen Walker	Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
Phone	(250) 756-2256 x	Phone		Project Name	
Fax	(250) 756-2686 x	Fax		Site #	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Sampled By	

Regulatory Criteria:		Special Instructions	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:		
<input type="checkbox"/> CSR														Please provide advance notice for rush projects	
<input type="checkbox"/> CCME														Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests.	
<input type="checkbox"/> BC Water Quality														Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
<input type="checkbox"/> Other														Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: <input type="checkbox"/>	
														Rush Confirmation Number: <input type="checkbox"/> (call lab for #)	




SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered? (Y/N)
1	MB04-0s	27-Nov-17		Water	✓
2	MB05-0s				✓
3	MB06-0s				✓
4	MB07-0s				✓
5	MB08-0s				✓
6	MB09-0s				✓
7	MB10-0s				✓
8	MB11-0s				✓
9	MB12-0s				✓
10	MB13-0s				✓

* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only	
				Mandheraj Kaur Chana		26/11/18	8:55		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt: 9,9,8 (KE PRESENT)
									Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No	

* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

10, 10, 11 (KE N/A)

INVOICE TO:		Report Information		Project Information					
Company Name #1433 TETRA TECH CANADA INC.		Company Name Shawneen Walker		Quotation # B60578					
Contact Name #1 - 4376 BOBAN DRIVE		Contact Name Shawneen Walker		P.O. #		Bottle Order #: 			
Address NANAIMO BC V9T 8A7		Address		Project # ENW.VENW03140-01		540796 Project Manager			
Phone (250) 756-2256 x Fax (250) 756-2686 x		Phone Fax		Project Name		Letitia Prefontaine			
Email Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		Email Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		Site #		 C#540796-10-01			
Regulatory Criteria: <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other _____		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Turnaround Time (TAT) Required: Please provide advance notice for rush projects	
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM		Metals Field Filtered? (Y/N) Lead ✓						Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.	
								Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: _____ Rush Confirmation Number: _____ (call lab for #)	
# of Bottles	Comments								
	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix				
1		MB14-05	27-Nov-17		Water	✓			
2		MB15-05				✓			
3		DB01-05				✓			
4		DB02-05				✓			
5		DB03-05				✓			
6		DB04-05				✓			
7		DB05-05				✓			
8		DB06-05				✓			
9		DB07-05				✓			
10		DB08-05				✓			
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted	Lab Use Only
				Munichraj Chavan CHANDHERAS KAKKUMMA 26/11/28			8:55		Time Sensitive <input type="checkbox"/> Temperature (°C) on Receipt 9,9,8 (ICE PRESENT) Custody Seal Intact on Cooler? N/A Yes <input type="checkbox"/> No <input type="checkbox"/>
<p>* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.</p> <p>* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.</p>									
								White: Maxxam	Yellow: Client

10, 10, 11 (ICE N/A)



Maxxam Analytics International Corporation o/a Maxxam Analytics
4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Shawneen Walker	Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03140-01
Phone	(250) 756-2256 x	Phone		Project Name	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Site #	
Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	
<input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input type="checkbox"/> Other					
Turnaround Time (TAT) Required:					
Please provide advance notice for rush projects					
Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.					
Job Specific Rush TAT (if applies to entire submission) 1 DAY <input type="checkbox"/> 2 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> Date Required: <input type="checkbox"/>					
Rush Confirmation Number: (call lab for #)					
# of Bottles Comments					
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y/N)
1	DB09-05	27-Nov-17		Water	✓
2	DB10-05				✓
3	DB11-05				✓
4	DB12-05				✓
5	DB13-05				✓
6	DB14-05				✓
7	DB15-05				✓
8	DB16-05				✓
9	DB17-05				✓
10	DB18-05				✓
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	
				Mandhara Kaur Hanna MANDHERAS KAUR HANNA 20/11/28 8:55	
				# jars used and not submitted	
				Time Sensitive	
				Temperature (°C) on Receipt	
				Custody Seal Intact on Cooler?	
				9,9,8 (ICE PRESENT)	
				Yes No N/A	
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.					
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.					

10,10,11 (ICE N/A)



Maxxam Analytics International Corporation o/a Maxxam Analytics
4606 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-563-6266 Fax: (604) 731 2386 www.maxxam.ca

Page 7 of 7

INVOICE TO:		Report Information		Project Information	
any Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
ct Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
ss	#1 - 4376 BOBAN DRIVE	Address		Project #	ENW.VENW03140-01
	NANAIMO BC V9T 6A7			Project Name	
Phone	(250) 756-2256 x	Phone		Site #	
	Fax: (250) 756-2686 x	Fax:		Sampled By	
Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra	Email	Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		
Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	
<input type="checkbox"/> CSR					
<input type="checkbox"/> CCME					
<input type="checkbox"/> BC Water Quality					
<input type="checkbox"/> Other					
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y/N)
1	WS28-05	27-Nov-17		Water	✓
2	WS29-05	↓		↓	✓
3					
4					
5					
6					
7					
8					
9					
10					
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	
				Mandheraj Kaur Chana MANDEHARAJ KAUR CHANA 20/11/28	
				Date: (YY/MM/DD)	Time
					8:55
				# Jars used and not submitted	
				Lab Use Only	
				Time Sensitive	
				Temperature (°C) on Receipt	9,9,8 (KE PRESENT)
				Custody Seal Intact on Cooler?	N/A. <input type="checkbox"/> Yes <input type="checkbox"/> No
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.					
* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.					



B7A6034_COC

Bottle Order #:



540796

Project Manager

Letitia Prefontaine



C#540796-12-01

Turnaround Time (TAT) Required:

Please provide advance notice for rush projects

Regular (Standard) TAT:

(will be applied if Rush TAT is not specified):

Standard TAT = 5-7 Working days for most tests.

Please note: Standard TAT for certain tests such as BOD and Dioxins/Furans are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)

1 DAY ☐ 2 Day ☐ 3 Day ☐ Date Required: ☐

Rush Confirmation Number:

(call lab for #)

of Bottles

Comments

10, 10, 11 (KE N/A)

Maxxam Analytics International Corporation o/a Maxxam Analytics