

December 21, 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 – Wellington Secondary

## 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 Wellington Secondary 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 Wellington Secondary on November 27<sup>th</sup> and December 11<sup>th</sup>, 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 Wellington Secondary are shown on the attached Figures 1 to 3.

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. 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 27<sup>th</sup> and December 11<sup>th</sup>, 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; during initial sampling the first was 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

A total of 29 sample locations were identified; two samples were collected at each location (i.e., 0 second sample and 30 second sample). Tetra Tech collected water 0 and 30 second samples from Wellington Secondary on November 27<sup>th</sup>, 2017. Twenty three pre-flush (0 second) samples were submitted for laboratory analysis of total lead. Six samples were collected from the newly constructed area (Samples WS16 through WS21) but were not submitted for laboratory analysis.

***Four of the 23 pre-flush (0 second samples) contained concentration of total lead greater than the GCDWQ MAC.***

Sample WS02 was collected from a water fountain outside Classroom B103, WS03 was collected from a sink in Classroom B103, sample WS07 was collected from a sink in the Medical Room and WS23 was collected from a water fountain outside the lower level girl's shower (Room D006B). The 30 second sample for all these locations was submitted for laboratory analysis of total lead.

***The 30 second sample at WS23 contained concentrations of total lead greater than the GCDWQ MAC.***

Tetra Tech collected 2 minute and 5 minute flush samples from WS23 on December 11<sup>th</sup> and submitted them for laboratory analysis of total lead.

**Both the 2 minute and 5 minute samples at WS23 contained total lead concentrations less than the GCDWQ MAC.**

Sampling locations are shown on Figures 1 to 3. Laboratory testing results for Wellington Secondary 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			
WS01-0s	11/27/2017	10 µg/L	0.79
WS02-0s	11/27/2017		13.0
WS03-0s	11/27/2017		17.1
WS04-0s	11/27/2017		9.66
WS05-0s	11/27/2017		9.07
WS06-0s	11/27/2017		3.66
WS07-0s	11/27/2017		22.1
WS08-0s	11/27/2017		0.26
WS09-0s	11/27/2017		3.60
WS10-0s	11/27/2017		3.42
WS11-0s	11/27/2017		1.93
WS12-0s	11/27/2017		0.47
WS13-0s	11/27/2017		0.22
WS14-0s	11/27/2017		1.73
WS15-0s	11/27/2017		0.74
WS22-0s	11/27/2017		3.56
WS23-0s	11/27/2017		20.8
WS24-0s	11/27/2017		1.25
WS25-0s	11/27/2017		2.12
WS26-0s	11/27/2017		3.70
WS27-0s	11/27/2017		0.92
WS28-0s	11/27/2017		9.57
WS29-0s	11/27/2017		8.73
30 Second Samples			
WS02-30s	11/27/2017	10 µg/L	2.51
WS03-30s	11/27/2017		1.42
WS07-30s	11/27/2017		6.94
WS23-30s	11/27/2017		49.5
2 Minute Sample			
WS23-2m	12/11/2017	10 µg/L	0.64
5 Minute Sample			
WS23-5m	12/11/2017	10 µg/L	0.93
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 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.

Four of 23 pre-flush (0 second) samples collected at Wellington Secondary contained concentrations of lead greater than the GCDWQ MAC. Lead concentrations at sample locations WS02, WS03 and WS07 exceeded the MAC for the 0 second samples but was below the guideline for the 30 second samples. Lead concentrations at WS23 exceeded the MAC for both 0 and 30 second samples (20.8 and 49.5 µg/L, respectively) but were below in the guideline for the 2 and 5 minute 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 WS02, WS03 and WS07 exceeded the MAC for the 0 second sample but not for the 30 second sample, there is potentially a lead source in the fixture. At WS23 the plumbing behind the fixture may also be a contributing source.

Flushing is adequate to lower the lead concentrations at all sample points in Wellington Secondary. Signage 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" should be maintained throughout the facility at each point where drinking water could be consumed.

## 6.0 SUMMARY AND CONCLUSIONS

Four pre-flush (0 second) samples (WS02, WS03, WS07 and WS23) collected at Wellington Secondary contained concentrations of total lead greater than the GCDWQ MAC of 10µg/L (0.010 mg/L). Of those four locations, three had concentrations of lead below the MAC in the corresponding 30 second samples. Sample WS23 had a concentration of lead exceeding the GCDWQ for both the 0 second and 30 second samples. However, sample WS23 was below for the 2 minute and 5 minute sample.

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. Signage 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” should be maintained at all water consumption points.

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.



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/dr

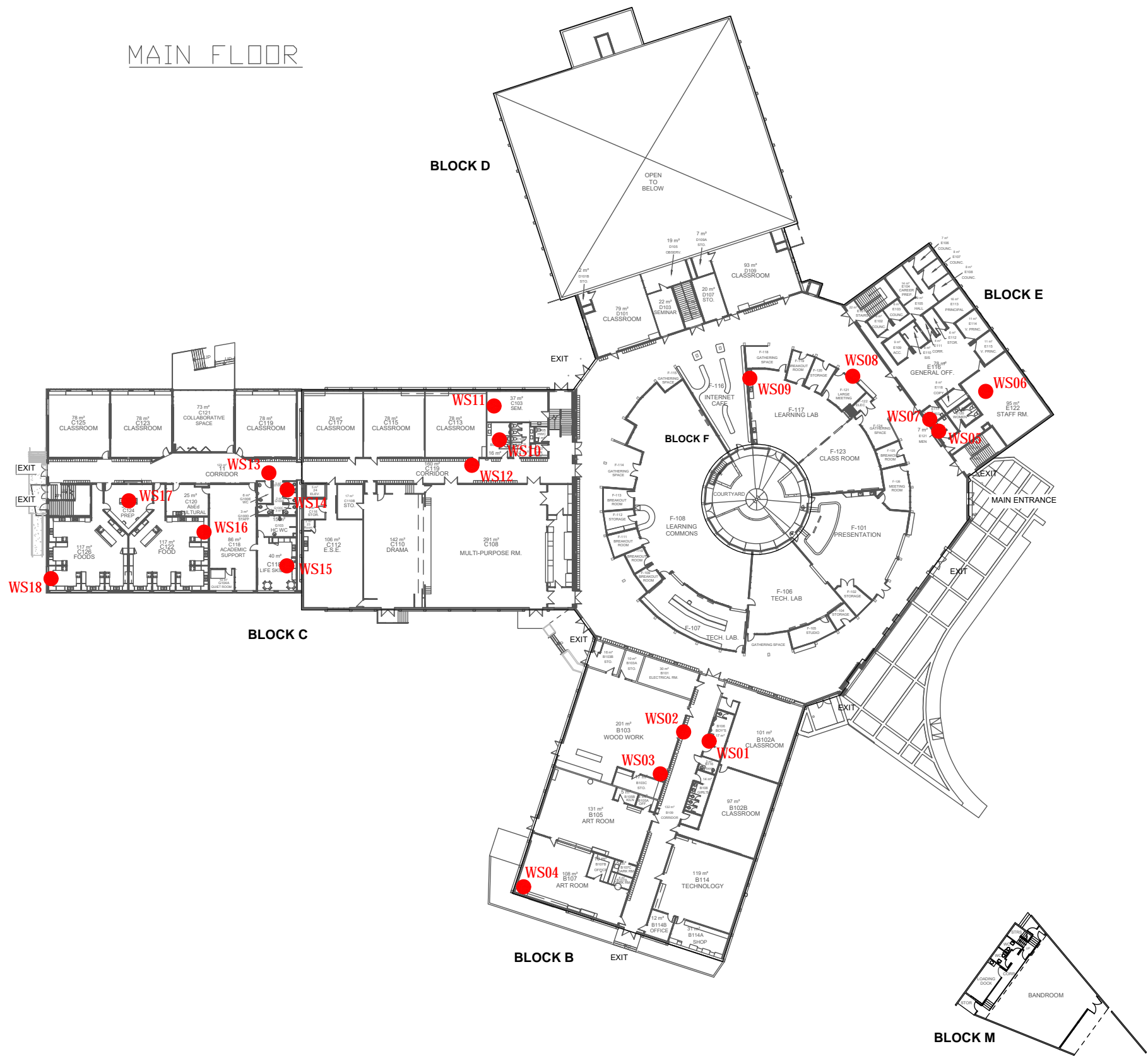
Attachments: Figure 1 - Wellington Secondary Sample Locations, Main Floor  
Figure 2 - Wellington Secondary Sample Locations, Upper Floor  
Figure 3 - Wellington Secondary Sample Locations, Lower Floor  
Appendix A - Limitations on the Use of this Document  
Appendix B - Laboratory Report

## FIGURES

- Figure 1 Wellington Secondary Sample Locations, Main Floor
- Figure 2 Wellington Secondary Sample Locations, Upper Floor
- Figure 3 Wellington Secondary Sample Locations, Lower Floor



Q:\Edmonton\Drafting\PROJECTS\704-ENW-VEN\ENW-VEN\W03140-01\02\_Acad\ENW-VEN\W03140-01\Figure 1\_Wellington Secondary\_Main Floor.dwg [FIGURE 1] December 21, 2017 - 11:14:28 am (BY: DAS, DERASHIS)



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

LEGEND:

● - SAMPLE LOCATION

CLIENT

School District 68



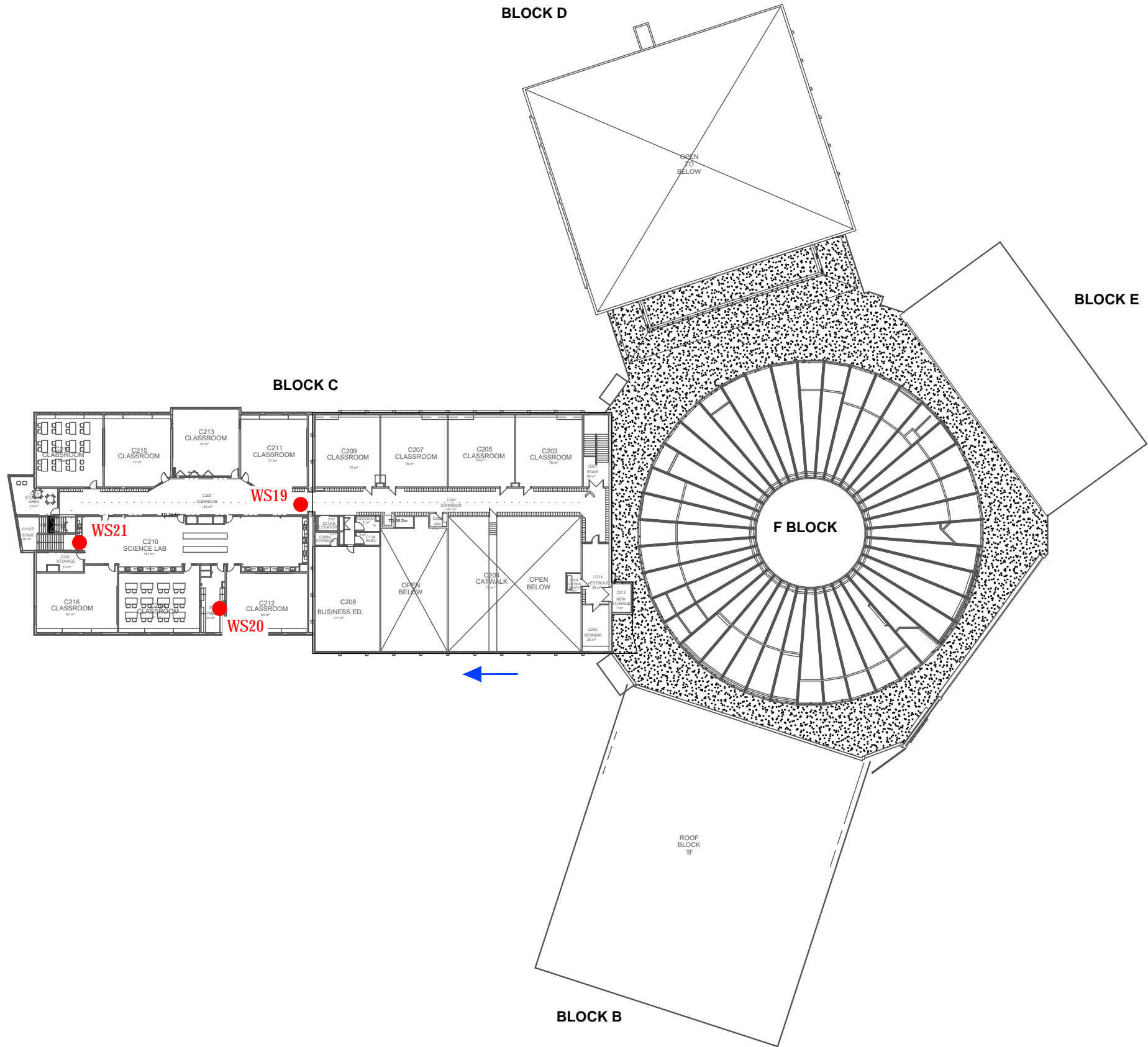
DOMESTIC WATER TESTING (LEAD) INVENTORY  
WELLINGTON SECONDARY SCHOOL  
3135 MEXICANA ROAD, NANAIMO, BC

WELLINGTON SECONDARY  
SAMPLE LOCATIONS (MAIN FLOOR)

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Figure 1

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NOTES:

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

LEGEND:

- - WATER DIRECTION
- - SAMPLE LOCATION

CLIENT

School District 68



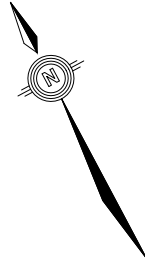
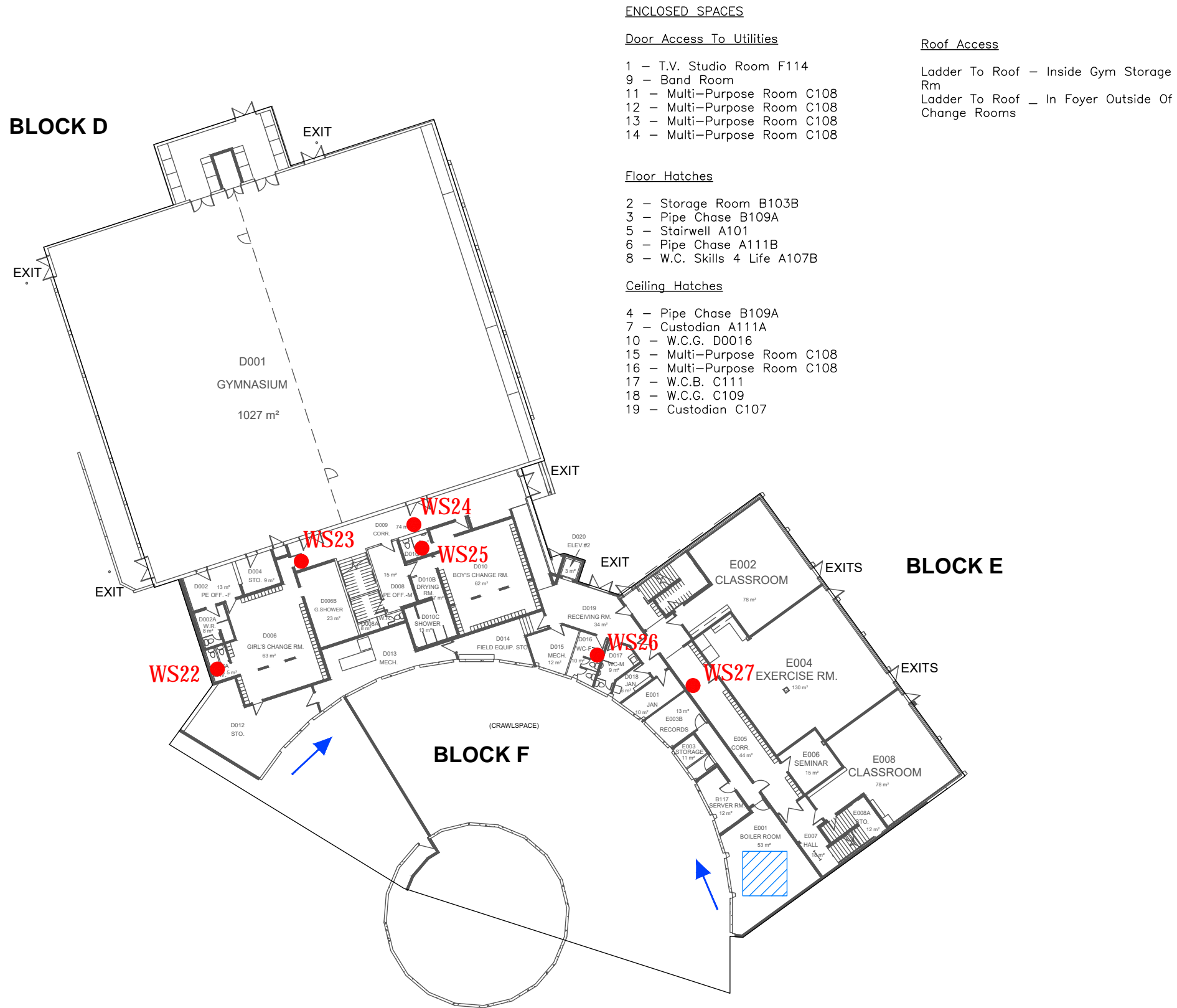
DOMESTIC WATER TESTING (LEAD) INVENTORY  
WELLINGTON SECONDARY SCHOOL  
3135 MEXICANA ROAD, NANAIMO, BC

WELLINGTON SECONDARY  
SAMPLE LOCATIONS (UPPER FLOOR)

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


Figure 2

Q:\Edmonton\Drafting\PROJECTS\704-ENW-VEN\ENW-VEN\W03140-01\02\_Acad\ENW-VEN\W03140-01\Figures\Figure 3 Wellington Secondary Lower Floor.dwg [FIGURE 3] December 21, 2017 - 11:13:00 am (BY: DAS, DEBASIS)



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

- LEGEND:**
- WATER ENTRY POINT
  - WATER DIRECTION
  - SAMPLE LOCATION

CLIENT	School District 68		DOMESTIC WATER TESTING (LEAD) INVENTORY WELLINGTON SECONDARY SCHOOL 3135 MEXICANA ROAD, NANAMO, BC			
			WELLINGTON SECONDARY SAMPLE LOCATIONS (LOWER FLOOR)			
 TETRA TECH	PROJECT NO. ENW.VENW03140-01	DWN DBD	CKD SW	REV 0	Figure 3	
	OFFICE EDM	DATE December 2017				

## APPENDIX A

### LIMITATIONS ON THE USE OF THIS DOCUMENT

# LIMITATIONS ON USE OF THIS DOCUMENT

## GEOENVIRONMENTAL

### 1.1 USE OF DOCUMENT AND OWNERSHIP

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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.

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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  
Your C.O.C. #: 541404-03-01

**Attention: Shawneen Walker**

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

**Report Date: 2017/12/14**

Report #: R2491584

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B7A9892**

**Received: 2017/12/12, 08:35**

Sample Matrix: DRINKING WATER  
# Samples Received: 8

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by CRC ICPMS (total)	8	N/A	2017/12/14	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.

### 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 #: B7A9892  
Report Date: 2017/12/14

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

### ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SQ8479	SQ8480	SQ8481	SQ8482	SQ8483	SQ8484		
Sampling Date			2017/12/11	2017/12/11	2017/12/11	2017/12/11	2017/12/11	2017/12/11		
COC Number			541404-03-01	541404-03-01	541404-03-01	541404-03-01	541404-03-01	541404-03-01		
	UNITS	MAC	WS23-2M	WS23-5M	SD07-2M	SD07-5M	DB14-2M	DB14-5M	RDL	QC Batch

#### Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	0.64	0.93	0.86	0.80	0.66	0.92	0.20	8861363
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No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam ID			SQ8485	SQ8486		
Sampling Date			2017/12/11	2017/12/11		
COC Number			541404-03-01	541404-03-01		
	UNITS	MAC	DB15-2M	DB15-5M	RDL	QC Batch

#### Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	0.63	0.91	0.20	8861363
-----------------	------	----	------	------	------	---------

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

RDL = Reportable Detection Limit



Maxxam Job #: B7A9892  
Report Date: 2017/12/14

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

## GENERAL COMMENTS

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

Package 1	5.7°C
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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 #: B7A9892  
Report Date: 2017/12/14

## QUALITY ASSURANCE REPORT

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

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8861363	Total Lead (Pb)	2017/12/14	97	80 - 120	99	80 - 120	<0.20	ug/L	3.6	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.

Maxxam Job #: B7A9892  
Report Date: 2017/12/14

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

### 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 Spécialist

---

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 A BURNHAM WORLDWIDE GROUP COMPANY		Maxxam Analytics International Corporation o/a Maxxam Analytics 4806 Canada Way, Burnaby, British Columbia Canada V5G 1K5 Tel: (604) 734 7276 Toll-free: 800-593-6296 Fax: (604) 731 2386 www.maxxam.ca		Page 1 of 1	
INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Shawneen Walker	Quotation #	B71611
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address	Shawneen Walker shawneen.walker@tetratech.com	Project #	ENW.VENW03140-01
Phone	(250) 756-2256 x	Phone	(250) 756-2686 x	Site #	
Email	smwalker@eba.ca; EBA.Labdata@tetratech.com	Email	smwalker@eba.ca; EBA.Labdata@tetratech.com	Sampled By	SW
Regulatory Criteria:		Special Instructions		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 <b>Regular (Standard) TAT:</b> (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. <b>Job Specific Rush TAT (if applies to entire submission)</b> 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 #)	
<b>SAMPLES MUST BE KEPT COOL (&lt; 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM</b>					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)
1	WS23-2m	17/12/11		Water	Lead - Drinking Water
2	WS23-5m				
3	SD07-2m				
4	SD07-5m				
5	DB14-2m				
6	DB14-5m				
7	DB15-2m				
8	DB15-5m				
9					
10					
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	
Shawneen Walker		17/12/11	08:00	EVA SYCORA	
				Date: (YY/MM/DD)	
				2017/12/12	
				Time	
				08:55	
				# Jars used and not submitted	
				Lab Use Only	
				Time Sensitive <input type="checkbox"/>	
				Temperature (°C) on Receipt	
				8.2, 7	
				Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No	
				N/A	
				White: Maxxam Yellow: Client	

ICE-N/A

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
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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.

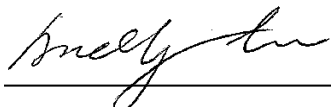
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

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

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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: 800-563-6266 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 #	BB
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	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)	Time	RECEIVED BY: (Signature/Print)	
[Signature]		12/11/22	2:00pm	[Signature]	
				Date: (YY/MM/DD)	Time
				20/11/28	11:09 AM 20/11/28
				# jars used and not submitted	8:55
				Time Sensitive	Temperature (°C) on Receipt
				<input type="checkbox"/>	9, 9, 8 (ICE PRESENT)
				Custody Seal Intact on Cooler?	
				N/A <input type="checkbox"/> Yes <input type="checkbox"/> No	
				White: Maxxam Yellow: Client	

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\* 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)

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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 #	BB
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	WS11-0s	27-Nov-17		Water	Lead
2	WS12-0s				HOLD
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	
				Time Sensitive	
				Temperature (°C) on Receipt	
				Custody Seal Intact on Cooler?	
				Yes <input type="checkbox"/> No <input type="checkbox"/>	
				White: Maxxam Yellow: Client	

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B7A6034\_COC



C#540796-07-01

Bottle Order #:



540796

Project Manager

Letitia Prefontaine

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)

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Page 3 of 7

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 #	
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					
SAMPLER 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	WS21-05	27-Nov-17		Water	Lead
2	WS22-05				HOLD
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)
				Mandharya Kaur (Karna MANDHERA) KAURCHANA	2017/11/28
# Jars used and not submitted		Time		Lab Use Only	
		8:55		Time Sensitive	
				Temperature (°C) on Receipt	
				9.9, 8 (ICE PRESENT) NA	
				Custody Seal Intact on Cooler?	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	
				White: Maxxam Yellow: Client	

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B7A6034\_COC



Bottle Order #:  
540796  
Project Manager

Letitia Prefontaine

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 (ICE N/A)




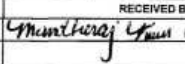


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INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B60578
Contact Name	Shawneen Walker	Contact Name	Shawneen Walker	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		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 #	
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: _____					
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	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	
				Time Sensitive	
				Temperature (°C) on Receipt	
				Custody Seal Intact on Cooler?	
				White Maxxam Yellow Client	

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INVOICE TO:		Report Information		Project Information		Bottle Order #:	
Company Name #1433 TETRA TECH CANADA INC.		Company Name Shawneen Walker		Quotation # B60578		 B7A6034_COC	
Contact Name #1 - 4376 BOBAN DRIVE		Contact Name Shawneen Walker		P.O. #		 540796	
Address NANAIMO BC V9T 8A7		Address		Project # ENW.VENW03140-01		Project Manager	
Phone (250) 756-2256 x Fax (250) 756-2686 x		Phone Fax		Project Name		 C#540796-10-01	
Email Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		Email Shawneen.Walker@tetratech.com; EBA.Labdata@tetra		Site #		Letitia Prefontaine	
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: _____ 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		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
						2017/11/28	8:55
						# jars used and not submitted	Lab Use Only
						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"/>
* 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



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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 20/11/18 8:55	
# jars used and not submitted		Date: (YY/MM/DD)	Time	Lab Use Only	
				Time Sensitive <input type="checkbox"/> Temperature (°C) on Receipt 9,9,8 (ICE PRESENT) Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> 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.					
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10,10,11 (ICE N/A)



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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					
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: <input type="checkbox"/>					
(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	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)	
				Date: (YY/MM/DD)	
				Time	
				# Jars used and not submitted	
				Lab Use Only	
				Time Sensitive	
				Temperature (°C) on Receipt	
				Custody Seal Intact on Cooler?	
				9,9,8 (KE PRESENT) 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.					

10, 10, 11 (KE N/A)

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