

February 19, 2018

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

ISSUED FOR USE
FILE: 704-ENW.VENW03150-01
Via Email: BHackwood@sd68.bc.ca

Attention: Brian Hackwood, Maintenance Manager

Subject: Domestic Water Testing (Lead) Inventory – Selby Street Daycare

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 Selby Street Daycare 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 Health Canada modified per the Vancouver Island Health Authority (VIHA) guidelines, to ascertain risk and mitigation.

Tetra Tech understands that the sampling schedule, collection, testing and reporting of results needs to be completed by March 1, 2018 in order to allow sufficient time for SD 68 to implement mitigation measures prior to its deadline of March 31, 2018.

Mr. Brian Hackwood, Maintenance Manager with SD 68, provided Tetra Tech with authorization to proceed with the inventory on January 18, 2018.

2.0 METHODOLOGY

Tetra Tech completed the domestic water testing inventory program at Selby Street Daycare on January 29th, 2018. The 2018 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 Selby Street Daycare are shown on the attached Figure 1.

Hallway 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 (including those with water fountains) were considered to have a moderate to high 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, January 29th, 2018 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* (GCDQG) Maximum Allowable Concentration (MAC), the 30 second sample would be submitted for further analysis; and
- If the 30 second sample analytical result exceeds the GCDQG 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. After collecting the water, each sample then had preservative added 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

Samples were analyzed by Maxxam Analytics in Burnaby, British Columbia. 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 by uploading laboratory results using ESdat, an environmental data management software, to minimize transcription errors; 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 will note any sample deficiencies, such as unacceptable headspace, broken jars or bottles, etc. As well, the laboratory will measure the temperature of samples received by the laboratory in Burnaby.

Duplicate Sample – Relative Percent Difference (RPD)

A second aliquot is obtained from a randomly chosen sample. The aliquot is processed and the results expressed as the RPD between the two results. The purpose of the laboratory duplicate is to evaluate analytical precision and sample homogeneity. Tetra Tech formed the duplicate samples by alternately placing approximately 10% of the sample volume into the original sample container and then placing the same amount into the duplicate sample container. Tetra Tech continued placing additional aliquots of approximately 10% of the sample volume into each container until both containers were filled. RPDs should only be calculated and assessed when both the sample and the duplicate concentration is greater than five times the reportable detection limit (RDL), referred to as the Practical Quantification Limit (PQL).

The RPD calculations are discussed in Section 5.0. At Selby Street Daycare, duplicate sample SBDUP was collected at SB06.

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* (GCDQG) published by Health Canada, February 2017. The guidelines list a Maximum Acceptable Concentration (MAC) for lead of 0.010 mg/L (10 µg/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 the Selby Street Daycare on January 29th, 2018. A total of 7 sample locations were identified; two samples were collected at each location (i.e., 0 second sample and 30 second sample). Seven (7) pre-flush (0 second) samples (plus one pre-flush duplicate) were submitted for laboratory analysis of total lead.

One of the 0 second samples contained concentration of total lead marginally greater than the GCDWQ MAC.

Sample SB07-0s was collected from the sink closest to the door in the washroom adjacent to the foyer. The 30 second sample for this sample location was submitted for laboratory analysis of total lead.

The 30 second sample at SB-07 contained a concentration of total lead less than the GCDWQ MAC.

Sampling locations are shown on Figure 1. Laboratory testing results for Selby Street Daycare are summarized in the table below. The complete laboratory certificate is provided as Appendix B with Selby Street Daycare results found on Maxxam lab report R2510628 pages 5, 6 and 7; and Maxxam lab report R2513683 page 3.

Table 1: Laboratory Testing Results

Sample ID	Sample Date	MAC	Total Lead (µg/L)
0 Second Samples			
SB01-0s	1/29/2018	10 µg/L	6.68
SB02-0s	1/29/2018		8.70
SB03-0s	1/29/2018		4.43
SB04-0s	1/29/2018		0.47
SB05-0s	1/29/2018		2.89
SB06-0s	1/29/2018		0.42
SB07-0s	1/29/2018		10.8
SBDUP-0s	1/29/2018		0.75
30 Second Samples			
SB07-30s	1/29/2018	10 µg/L	0.65
*duplicate samples SBDUP was collected at SB06			
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, a 5 minute flush sample (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.

One of the seven pre-flush (0 second) samples collected at Selby Street Daycare contained a concentration of lead greater than the GCDWQ MAC. The lead concentration at sample location SB07 exceeded the MAC for the 0 second samples but was below the guideline for the 30 second sample.

As previously noted, where lead concentrations are elevated in 0 second samples, the contributing source is likely the fixture (i.e., faucet or fittings). Since the lead concentration at the location noted above exceeded the MAC for the 0 second sample but not for the 30 second sample, there is potentially a lead source in the fixture.

Flushing is adequate to lower the lead concentrations at all sample points in Selby Street Daycare. 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.

At Selby Street Daycare, duplicate sample SBDUP was collected at SB06. The total lead concentration for both 0 second samples was below 5 times RDL of 0.20 µg/L, and as such the RPD was not calculated. Given, Maxxam’s internal QA/QC process, and that the remaining duplicate samples collected throughout the program have generally met the 30% screening threshold recommended by BC Ministry of Environment Q&A, and BC Environmental Laboratory Manual, Tetra Tech considers the analytical results to be valid and re-sampling not necessary

6.0 SUMMARY AND CONCLUSIONS

One pre-flush (0 second) sample (SB07) collected at Selby Street Daycare contained a concentration of total lead greater than the GCDWQ MAC of 10µg/L (0.010 mg/L). The sample location had a concentration of lead below the MAC in the corresponding 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. 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 Report' 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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Environment Practice
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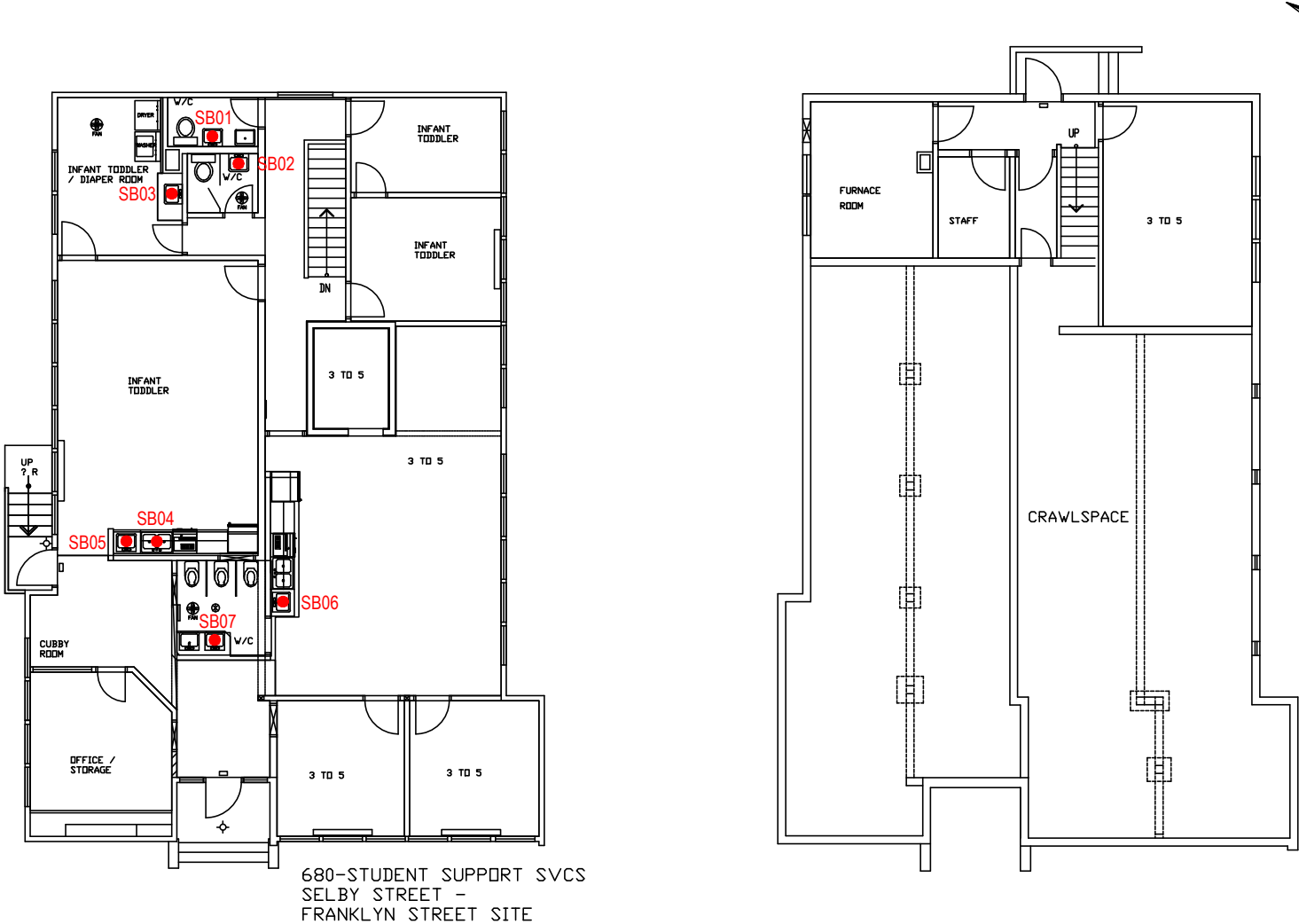
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/dr

Attachments: Figure 1 - Selby Street Daycare Sample Locations
Appendix A - Limitations on the Use of this Document
Appendix B - Laboratory Reports

FIGURES

Figure 1 Selby Street Daycare Sample Locations



LEGEND:
● - SAMPLE LOCATION

NOTES
BASED ON DRAWING PROVIDED BY CLIENT
DRAWING IS NOT TO SCALE

STATUS
ISSUED FOR USE

CLIENT

SCHOOL DISTRICT NO 68



DOMESTIC WATER TESTING
LEAD INVENTORY

685 STUDENT SUPPORT SERVICES
420 SELBY STREET, NANAIMO BC

PROJECT NO. ENW.VENW03150-01	DWN MRV	CKD DT	REV 0
OFFICE EDM	DATE February 1, 2018		

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

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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.

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.VENW03150-01
Site Location: SD68 LEAD DW TESTING

Attention: Darren Thomas

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

Your C.O.C. #: 546212-05-01, 546212-06-01, 546212-07-01

Report Date: 2018/02/13

Report #: R2513683

Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B809848

Received: 2018/02/08, 08:40

Sample Matrix: DRINKING WATER
Samples Received: 26

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by CRC ICPMS (total)	8	N/A	2018/02/09	BBY7SOP-00003,	EPA 6020b R2 m
Elements by CRC ICPMS (total)	18	N/A	2018/02/10	BBY7SOP-00003,	EPA 6020b R2 m

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.VENW03150-01
Site Location: SD68 LEAD DW TESTING

Attention: Darren Thomas

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

Your C.O.C. #: 546212-05-01, 546212-06-01, 546212-07-01

Report Date: 2018/02/13
Report #: R2513683
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B809848
Received: 2018/02/08, 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 #: B809848
Report Date: 2018/02/13

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150-01
Site Location: SD68 LEAD DW TESTING
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SY0380	SY0381	SY0382	SY0383	SY0384	SY0385		
Sampling Date			2018/01/29 00:00	2018/01/29 00:00	2018/01/29 00:00	2018/01/29 00:00	2018/01/29 00:00	2018/01/29 00:00		
COC Number			546212-05-01	546212-05-01	546212-05-01	546212-05-01	546212-05-01	546212-05-01		
	UNITS	MAC	GA05-30S	GA06-30S	GA08-30S	GA12-30S	GA13-30S	GA16-30S	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	1.41	0.58	18.8	1.23	2.45	2.17	0.20	8907050
-----------------	------	----	------	------	------	------	------	------	------	---------

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

RDL = Reportable Detection Limit

Maxxam ID			SY0386	SY0387		SY0388	SY0389	SY0394		
Sampling Date			2018/01/29 00:00	2018/01/29 03:00		2018/01/29 03:00	2018/01/29 03:00	2018/01/29 03:00		
COC Number			546212-05-01	546212-05-01		546212-05-01	546212-05-01	546212-06-01		
	UNITS	MAC	GA20-30S	PA01-30S	QC Batch	PA02-30S	PA03-30S	PA07-30S	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	1.15	3.18	8907050	7.31	2.93	0.79	0.20	8907060
-----------------	------	----	------	------	---------	------	------	------	------	---------

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

RDL = Reportable Detection Limit

Maxxam ID			SY0395	SY0396	SY0397	SY0398	SY0399	SY0400		
Sampling Date			2018/01/29 03:00	2018/01/29 03:00	2018/01/29 03:00	2018/01/29 03:00	2018/01/29	2018/01/29		
COC Number			546212-06-01	546212-06-01	546212-06-01	546212-06-01	546212-06-01	546212-06-01		
	UNITS	MAC	PA11-30S	PA16-30S	PA17-30S	PADUP-30S	SB07-30S	18ST05-30S	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	0.94	1.86	5.50	5.54	0.65	0.95	0.20	8907060
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No Fill	No Exceedance
Grey	Exceeds 1 criteria policy/level
Black	Exceeds both criteria/levels

RDL = Reportable Detection Limit

Maxxam Job #: B809848
Report Date: 2018/02/13

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150-01
Site Location: SD68 LEAD DW TESTING
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SY0401	SY0402	SY0403	SY0405	SY0406	SY0407		
Sampling Date			2018/01/29	2018/01/29	2018/01/29	2018/01/29	2018/01/29	2018/01/29		
COC Number			546212-06-01	546212-06-01	546212-06-01	546212-07-01	546212-07-01	546212-07-01		
	UNITS	MAC	18ST08-30S	18DC03-30S	18DC04-30S	18DC08-30S	18DC09-30S	18DC13-30S	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	1.29	1.19	1.23	6.09	1.23	3.31	0.20	8907060
-----------------	------	----	------	------	------	------	------	------	------	---------

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

RDL = Reportable Detection Limit

Maxxam Job #: B809848
Report Date: 2018/02/13

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150-01
Site Location: SD68 LEAD DW TESTING
Sampler Initials: BB

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SY0408	SY0409	SY0410		
Sampling Date			2018/01/29	2018/01/29	2018/01/29		
COC Number			546212-07-01	546212-07-01	546212-07-01		
	UNITS	MAC	18DC17-30S	18DC18-30S	18DC20-30S	RDL	QC Batch
Total Metals by ICPMS							
Total Lead (Pb)	ug/L	10	4.38	4.91	13.3	0.20	8907060
No Fill	No Exceedance						
Grey	Exceeds 1 criteria policy/level						
Black	Exceeds both criteria/levels						
RDL = Reportable Detection Limit							

Maxxam Job #: B809848
Report Date: 2018/02/13

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150-01
Site Location: SD68 LEAD DW TESTING
Sampler Initials: BB

GENERAL COMMENTS

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

Package 1	8.7°C
-----------	-------

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 #: B809848
Report Date: 2018/02/13

QUALITY ASSURANCE REPORT

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150-01
Site Location: SD68 LEAD DW TESTING
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
8907050	Total Lead (Pb)	2018/02/09	96	80 - 120	98	80 - 120	<0.20	ug/L	9.0	20
8907060	Total Lead (Pb)	2018/02/10	104	80 - 120	95	80 - 120	<0.20	ug/L	4.7	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 #: B809848
Report Date: 2018/02/13

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150-01
Site Location: SD68 LEAD DW TESTING
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).



Rob Reinert, B.Sc., Scientific Specialist

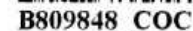
Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

INVOICE TO:		Report Information		Project Information	
Company Name: #1433 TETRA TECH CANADA INC.		Company Name: Darren Thomas		Quotation #: B71611	
Contact Name: Darren Thomas		Contact Name: Darren Thomas		P.O. #: ENW.VENW03150-01	
Address: #1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7		Address:		Project #: SD65 Lead on test	
Phone: (250) 756-2256 x Fax: (250) 756-2686 x		Phone:		Project Name: Ben Barton / Darren Morley	
Email: Darren.Thomas@tetratech.com; EBA.Labdata@tetratec		Email: Darren.Thomas@tetratech.com; EBA.Labdata@tetratec		Site #: Ben Barton / Darren Morley	
Regulatory Criteria:		Special Instructions:		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	
<input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input checked="" type="checkbox"/> Other Health Canada					
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	GA05-30s	18/01/29	12:00 midday water	n	X
2	GA06-30s			n	X
3	GA08-30s			n	X
4	GA12-30s			n	X
5	GA13-30s			n	X
6	GA16-30s			n	X
7	GA20-30s			n	X
8	PA01-30s		03:00	n	X
9	PA02-30s			n	X
10	PA03-30s			n	X
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)		Time	
Darren Thomas		18/02/07		10:00	
RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)		Time	
MU PEDRO TACH		2018/02/08		08:40	
# Jars used and not submitted		Lab Use Only		Custody Seal Intact on Cooler?	
		Time Sensitive: <input type="checkbox"/> Temperature (°C) on Receipt: 9.8.9		<input type="checkbox"/> Yes <input checked="" 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. * 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.					



Page 1 of 7
 Bottle Order #:
 546212
 Project Manager
 Letitia Prefontaine

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name		Quotation #	B71611
Contact Name	Darren Thomas	Contact Name	Darren Thomas	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW VENW03150-01
Phone	(250) 756-2256 x Fax: (250) 756-2686 x	Phone		Project Name	SXSS Old Lead Testing
Email	Darren.Thomas@tetratech.com; EBA.Labdata@tetratec	Email	Darren.Thomas@tetratech.com; EBA.Labdata@tetratec	Site #	
				Sampled By	Ben Burton Darren Thomas



Letitia Prefontaine

Regulatory Criteria: <input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input checked="" type="checkbox"/> Other <u>Health Canada</u>		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 - Drinking Water										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 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		
1	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix												
		PA07-30s	18/01/29	03:00	water	n	+									1	
2		PA4-30s				n	+									1	
3		PA16-30s				n	+									1	
4		PA17-30s				n	+									1	
5		PA07-30s				n	X									1	
6		SD07-30s				n	+									1	
7		18 ST05-30s				n	+									1	
8		18 ST08-30s				n	+									1	
9		18 DC03-30s				n	+									1	
10		18 DC04-30s				n	X									1	
* RELINQUISHED BY: (Signature/Print) <u>Darren Thomas</u>			Date: (YY/MM/DD) <u>18/02/07</u>		Time <u>10:00</u>		RECEIVED BY: (Signature/Print) <u>MURDOCK TACK</u>			Date: (YY/MM/DD) <u>2018/02/08</u>		Time <u>08:40</u>		# jars used and not submitted		Lab Use Only	
														Time Sensitive <input type="checkbox"/>		Temperature (°C) on Receipt <u>9.8.9</u>	
															Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input checked="" 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



Maxxam Analytics International Corporation o/a Maxxam Analytics
4608 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 3 of 3

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Darren Thomas	Quotation #	B71611
Contact Name	Darren Thomas	Contact Name	Darren Thomas	P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW.VENW03150-01
Phone	(250) 756-2256 x	Phone		Project Name	SKS On lead testing
Email	Darren.Thomas@tetratech.com; EBA.Labdata@tetratec	Email	Darren.Thomas@tetratech.com; EBA.Labdata@tetratec	Site #	Res. Benton / Darren Thomas
Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	
<input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input checked="" type="checkbox"/> Other <i>Health Canada</i>					
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	
1	18 DC 08 - 30s	15/02/29		water	n +
2	18 DC 09 - 30s				n +
3	18 DC 13 - 30s				n +
4	18 DC 17 - 30s				n +
5	18 DC 18 - 30s				n +
6	18 DC 20 - 30s				n +
7	18 ST 09 - 30s				n +
8					
9					
10					
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)	
<i>Darren Thomas</i>		15/02/27	12:00	<i>MILL PEDRO JACK</i>	
				Date: (YY/MM/DD)	Time
				2015/02/08	08:40
# jars used and not submitted		Time Sensitive		Temperature (°C) on Receipt	
		<input type="checkbox"/>		9.8.9	
Lab Use Only		Custody Seal Intact on Cooler?			
		<input type="checkbox"/> Yes <input checked="" 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.

Maxxam Analytics International Corporation o/a Maxxam Analytics

Your Project #: ENW.VENW03150
Site Location: SD68 DW TESTING

Attention: Ben Barton

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

Your C.O.C. #: 545893-11-01, 545893-12-01, 545893-13-01, 545893-14-01, 545893-15-01

Report Date: 2018/02/06
Report #: R2510628
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B807281

Received: 2018/01/30, 08:48

Sample Matrix: DRINKING WATER
Samples Received: 47

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Elements by CRC ICPMS (total)	38	N/A	2018/01/31	BBY7SOP-00003,	EPA 6020b R2 m
Elements by CRC ICPMS (total)	9	N/A	2018/02/02	BBY7SOP-00003,	EPA 6020b R2 m

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.VENW03150
Site Location: SD68 DW TESTING

Attention: Ben Barton

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

Your C.O.C. #: 545893-11-01, 545893-12-01, 545893-13-01, 545893-14-01, 545893-15-01

Report Date: 2018/02/06
Report #: R2510628
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B807281
Received: 2018/01/30, 08:48

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 #: B807281
Report Date: 2018/02/06

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150
Site Location: SD68 DW TESTING
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SW7411	SW7412	SW7413	SW7414	SW7415	SW7416		
Sampling Date			2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00		
COC Number			545893-11-01	545893-11-01	545893-11-01	545893-11-01	545893-11-01	545893-11-01		
	UNITS	MAC	GA01-OS	GA02-OS	GA03-OS	GA04-OS	GA05-OS	GA06-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	6.98	3.76	1.11	7.51	15.8	11.1	0.20	8898737
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam ID			SW7417	SW7418	SW7419	SW7420	SW7421	SW7422		
Sampling Date			2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00		
COC Number			545893-11-01	545893-11-01	545893-11-01	545893-11-01	545893-12-01	545893-12-01		
	UNITS	MAC	GA07-OS	GA08-OS	GA09-OS	GA10-OS	GA11-OS	GA12-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	6.08	20.7	4.67	0.50	6.46	10.7	0.20	8898737
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam ID			SW7423	SW7424	SW7425	SW7426	SW7427	SW7428		
Sampling Date			2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00	2018/01/28 12:00		
COC Number			545893-12-01	545893-12-01	545893-12-01	545893-12-01	545893-12-01	545893-12-01		
	UNITS	MAC	GA13-OS	GA14-OS	GA15-OS	GA16-OS	GA17-OS	GA18-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	12.5	8.13	7.87	13.2	0.55	1.59	0.20	8898737
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam Job #: B807281
Report Date: 2018/02/06

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150
Site Location: SD68 DW TESTING
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SW7429		SW7430	SW7439	SW7440	SW7441		
Sampling Date			2018/01/28 12:00		2018/01/28 12:00	2018/01/28 12:00	2018/01/28 03:00	2018/01/28 03:00		
COC Number			545893-12-01		545893-12-01	545893-13-01	545893-13-01	545893-13-01		
	UNITS	MAC	GA19-OS	QC Batch	GA20-OS	GADUP-OS	PA01-OS	PA02-OS	RDL	QC Batch
Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	8.22	8898737	9.32	8.78	13.7	17.3	0.20	8898755
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam Job #: B807281
Report Date: 2018/02/06

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150
Site Location: SD68 DW TESTING
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SW7442	SW7443	SW7444	SW7445	SW7446	SW7447		
Sampling Date			2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00		
COC Number			545893-13-01	545893-13-01	545893-13-01	545893-13-01	545893-13-01	545893-13-01		
	UNITS	MAC	PA03-OS	PA04-OS	PA05-OS	PA06-OS	PA07-OS	PA08-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	18.7	6.60	1.20	1.41	15.0	4.33	0.20	8898755
-----------------	------	----	------	------	------	------	------	------	------	---------

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

RDL = Reportable Detection Limit

Maxxam ID			SW7448	SW7449	SW7450	SW7451	SW7452	SW7453		
Sampling Date			2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00		
COC Number			545893-13-01	545893-14-01	545893-14-01	545893-14-01	545893-14-01	545893-14-01		
	UNITS	MAC	PA09-OS	PA10-OS	PA11-OS	PA12-OS	PA13-OS	PA14-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	3.75	1.03	30.2	3.29	3.07	4.19	0.20	8898755
-----------------	------	----	------	------	------	------	------	------	------	---------

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

RDL = Reportable Detection Limit

Maxxam ID			SW7454	SW7455	SW7456		SW7457	SW7458		
Sampling Date			2018/01/28 03:00	2018/01/28 03:00	2018/01/28 03:00		2018/01/28 03:00	2018/01/28 05:00		
COC Number			545893-14-01	545893-14-01	545893-14-01		545893-14-01	545893-14-01		
	UNITS	MAC	PA15-OS	PA16-OS	PA17-OS	QC Batch	PADUP-OS	SB01-OS	RDL	QC Batch

Total Metals by ICPMS

Total Lead (Pb)	ug/L	10	5.69	17.2	65.1	8898755	49.3	6.68	0.20	8898774
-----------------	------	----	------	------	------	---------	------	------	------	---------

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

RDL = Reportable Detection Limit

Maxxam Job #: B807281
Report Date: 2018/02/06

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150
Site Location: SD68 DW TESTING
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SW7460	SW7461	SW7462	SW7463	SW7464	SW7465		
Sampling Date			2018/01/28 05:00	2018/01/28 05:00	2018/01/28 05:00	2018/01/28 05:00	2018/01/28 05:00	2018/01/28 05:00		
COC Number			545893-15-01	545893-15-01	545893-15-01	545893-15-01	545893-15-01	545893-15-01		
	UNITS	MAC	SB02-OS	SB03-OS	SB04-OS	SB05-OS	SB06-OS	SB07-OS	RDL	QC Batch

Total Metals by ICPMS										
Total Lead (Pb)	ug/L	10	8.70	4.34	0.47	2.89	0.42	10.8	0.20	8898774
No Fill	No Exceedance									
Grey	Exceeds 1 criteria policy/level									
Black	Exceeds both criteria/levels									
RDL = Reportable Detection Limit										

Maxxam Job #: B807281
Report Date: 2018/02/06

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150
Site Location: SD68 DW TESTING
Sampler Initials: DT

ELEMENTS BY ATOMIC SPECTROSCOPY (DRINKING WATER)

Maxxam ID			SW7466		
Sampling Date			2018/01/28 05:00		
COC Number			545893-15-01		
	UNITS	MAC	SBDUP-OS	RDL	QC Batch
Total Metals by ICPMS					
Total Lead (Pb)	ug/L	10	0.75	0.20	8898774
No Fill	No Exceedance				
Grey	Exceeds 1 criteria policy/level				
Black	Exceeds both criteria/levels				
RDL = Reportable Detection Limit					

Maxxam Job #: B807281
Report Date: 2018/02/06

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150
Site Location: SD68 DW TESTING
Sampler Initials: DT

GENERAL COMMENTS

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

Package 1	4.3°C
-----------	-------

COC page 5 of 5 line # 6, SB06-OS : 1x 120mL plastic preserved with HNO₃ received with incorrect labels. Sample labeled as SB07-OS, inspected as per sample label.

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 #: B807281
Report Date: 2018/02/06

QUALITY ASSURANCE REPORT

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150
Site Location: SD68 DW TESTING
Sampler Initials: DT

QC Batch	Parameter	Date	Matrix Spike		Spiked Blank		Method Blank		RPD	
			% Recovery	QC Limits	% Recovery	QC Limits	Value	UNITS	Value (%)	QC Limits
8898737	Total Lead (Pb)	2018/01/31	97	80 - 120	98	80 - 120	<0.20	ug/L	0.40	20
8898755	Total Lead (Pb)	2018/01/31	99	80 - 120	97	80 - 120	<0.20	ug/L	2.2	20
8898774	Total Lead (Pb)	2018/02/02	93	80 - 120	102	80 - 120	<0.20	ug/L	1.5	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 #: B807281
Report Date: 2018/02/06

TETRA TECH CANADA INC.
Client Project #: ENW.VENW03150
Site Location: SD68 DW TESTING
Sampler Initials: DT

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.



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Chain Of Custody Record

1 of 5

INVOICE TO:		Report Information		Project Information	
Company Name:	#1433 TETRA TECH CANADA INC.	Company Name:	Seal as mobile	Quotation #	B60578
Contact Name:	Ben Barton	Contact Name:		P.O. #	
Address:	#1 - 4376 BOBAN DRIVE	Address:		Project #	ENW VENW03150
	NANAIMO BC V9T 6A7			Project Name:	SD65 New testing
Phone:	(250) 756-2256 x	Phone:		Site #	
Fax:	(250) 756-2686 x	Fax:		Sampled By	Dan Thomas
Email:	bbarton@eba.ca; EBA.Labdata@tetratech.com	Email:			



B807281_COC

Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:			
<input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input checked="" type="checkbox"/> Other <i>BC Health Care de DWQGL</i>														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.														<input checked="" type="checkbox"/>			
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)	Lead - Drinking Water										# of Bottles	Comments
GA01-0s	GA01-0s	15/01/28	12:00pm	Water	N	X										1	
GA02-0s	GA02-0s				N	X										1	
GA03-0s	GA03-0s				N	X										1	
GA04-0s	GA04-0s				N	X										1	
GA05-0s	GA05-0s				N	X										1	
GA06-0s	GA06-0s				N	X										1	
GA07-0s	GA07-0s				N	X										1	
GA08-0s	GA08-0s				N	X										1	
GA09-0s	GA09-0s				N	X										1	
GA10-0s	GA10-0s				N	X										1	
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>Dan Thomas</i>		15/01/28	9:00	<i>POMMERL GORDA</i>		2016/01/28	08:46		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?						
									<input type="checkbox"/>	4, 5, 4	<input type="checkbox"/> Yes <input checked="" 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.																	

106-485

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Chain Of Custody Record

Page 2 of 5

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Jane AS Invoice to	Quotation #	B60578
Contact Name	Ben Barton	Contact Name		P.O. #	
Address	#1 - 4376 BOBAN DRIVE	Address		Project #	ENW.VENW03150
	NANAIMO BC V9T 6A7			Project Name	SDGS Water Testing
Phone	(250) 756-2256 x	Phone		Site #	
Fax	(250) 756-2686 x	Fax		Sampled By	Darren Thomas
Email	bbarton@eba.ca; EBA.Labdata@tetratech.com	Email			



B807281_COC

Order #:
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Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)										Turnaround Time (TAT) Required:					
<input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input checked="" type="checkbox"/> Other Health Canada DRUGS														Please provide advance notice for rush projects					
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM														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					
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Metals Field Filtered ? (Y/N)	Lead - Drinking Water													
1	GA11-0s	18/01/28	9:00	Water	N	X													
2	GA12-0s				N	X													
3	GA13-0s				N	X													
4	GA14-0s				N	X													
5	GA15-0s				N	X													
6	GA16-0s				N	X													
7	GA17-0s				N	X													
8	GA18-0s				N	X													
9	GA19-0s				N	X													
10	GA20-0s				N	X													
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										
Darren Thomas		18/01/28	9:00	POMMER GOTA		20/01/20	08:46		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?								
									<input type="checkbox"/>	4.5.4	<input type="checkbox"/> Yes <input checked="" 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.																			

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Chain Of Custody Record

Page 3 of 5

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Same as invoice to	Quotation #	B60578
Contact Name	Ben Barton	Contact Name		P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW VENW03150
Phone	(250) 756-2256 x	Phone		Project Name	SDBS water sampling
Fax	(250) 756-2686 x	Fax		Site #	
Email	bbarton@eba.ca; EBA.Labdata@tetrattech.com	Email		Sampled By	Doreen Palmer



B807281_COC

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:	
<input type="checkbox"/> BC Water Quality															(will be applied if Rush TAT is not specified):	
<input checked="" type="checkbox"/> Other Health Canada DRUG															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 #)		
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)	Lead - Drinking Water									# of Bottles	Comments
1	GADP - O ₅	18/01/28	12:00pm	Water	N	X									1	
2	PA01 - O ₅		3:00pm		N	X									1	
3	PA02 - O ₅				N	X									1	
4	PA03 - O ₅				N	X									1	
5	PA04 - O ₅				N	X									1	
6	PA05 - O ₅				N	X									1	
7	PA06 - O ₅				N	X									1	
8	PA07 - O ₅				N	X									1	
9	PA08 - O ₅				N	X									1	
10	PA09 - O ₅				N	X									1	
* 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						
Doreen Palmer		18/01/28	9:00	Doreen Palmer		20/01/30	08:46			Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?				
										<input type="checkbox"/>	4.5.4	<input type="checkbox"/> Yes <input checked="" 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 RELINQUISHING PARTY TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.																

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Page 4 of 5

INVOICE TO:		Report Information		Project Information	
Company Name	#1433 TETRA TECH CANADA INC.	Company Name	Same as invoice to	Quotation #	B60578
Contact Name	Ben Barton	Contact Name		P.O. #	
Address	#1 - 4376 BOBAN DRIVE NANAIMO BC V9T 6A7	Address		Project #	ENW VENW03150
Phone	(250) 756-2256 x	Phone		Project Name	SOS DW Sampling
Email	bbarton@eba.ca; EBA.Labdata@tetratech.com	Email		Site #	
				Sampled By	Darren Adams



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Regulatory Criteria:

☐ CSR

☐ CCME

☐ BC Water Quality

☒ Other Health Canada DWBC

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 > 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 #)

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)	Lead - Drinking Water														# of Bottles	Comments
1	PA 10 - O ₃	18/01/18	03:00am	water	N	X														1	
2	PA 11 - O ₃				N	X														1	
3	PA 12 - O ₃				N	X														1	
4	PA 13 - O ₃				N	X														1	
5	PA 14 - O ₃				N	X														1	
6	PA 15 - O ₃				N	X														1	
7	PA 16 - O ₃				N	X														1	
8	PA 17 - O ₃				N	X														1	
9	PA Dup - O ₃				N	X														1	
10	SB 01 - O ₃		5:00am		N	X														1	

* 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		
Darren Adams		18/01/18	9:00	KOMMA GDA		2018/01/30	05:41		Time Sensitive <input type="checkbox"/>	Temperature (°C) on Receipt 4.5.4	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.											

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Chain Of Custody Record

Page 5 of 5

INVOICE TO:		Report Information		Project Information	
Company Name	1433 TETRA TECH CANADA INC.	Company Name	See as above to	Quotation #	B60578
Contact Name	Ben Barton	Contact Name		P.O. #	
Address	#1 - 4376 BOBAN DRIVE	Address		Project #	ENW VENW03150
	NANAIMO BC V9T 6A7			Project Name	SDGS Du Sampling
Phone	(250) 756-2256 x	Phone		Site #	
Email	bbarton@eba.ca; EBA.Labdata@tetratech.com	Email		Sampled By	Darren Roux



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der #:
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Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)												Turnaround Time (TAT) Required:			
<input type="checkbox"/> CSR <input type="checkbox"/> CCME <input type="checkbox"/> BC Water Quality <input checked="" type="checkbox"/> Other Health Canada DWGL																Please provide advance notice for rush projects			
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)	Lead - Drinking Water												# of Bottles	Comments
1	SB02 - Os	18/01/28	9:00	Water	N	X												1	
2	SB03 - Os				N	X												1	
3	SB04 - Os				N	X												1	
4	SB05 - Os				N	X												1	
5	SB06 - Os				N	X												1	
6	SB06 - Os				N	X												1	
7	SB06 - Os				N	X												1	
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										
Darren Roux		18/01/28	9:00	Darren Roux		2018/01/30	08:46		Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?								
									<input type="checkbox"/>	45.4	<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									

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