

TETRA TECH CANADA INC.

Client Project #: ENW.VENW03150-01
Site Location: SD68 LEAD DW TESTING

Sampler Initials: BB

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 I	CPMS								
Total Lead (Pb)		ug/L	10	4.38	4.91	13.3	0.20	8907060	
No Fill	No Exceed	dance		•	•	•	=	,	
Grey	Exceeds 1	criteria	policy	/level					
Black Exceeds both criteria/levels									
RDL = Reportable Detection Limit									



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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.



QUALITY ASSURANCE REPORT

TETRA TECH CANADA INC.

Client Project #: ENW.VENW03150-01

Site Location: SD68 LEAD DW TESTING

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			Matrix	Spike	Spiked	Blank	Method B	lank	RPE)
QC Batch	Parameter	Date	% 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.



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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 Inform	ition			Project Informat	ion	= _	no mora de suas-cursa suas de Sala Sala Sala Sala Sala Sala Sala Sal	Page (c
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ess	#1 - 4376 BO		Address					Project #	ENW.VENWO		_ B	3809848_COC	546212
	NANAIMO BO		00					Project Name	SDEG Lead	où teg	YAL	SASS	Ject Manag
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egulatory Cr	teria:	The first of	Spe	cial Instructions			ANALYSIS F	EQUESTED (PLEASE	BE SPECIFIC)			Turnaround Time (TAT) Required Please provide advance notice for rush pro	
CSR CCME BC Wate	tlentth (and		Kan Kan	illered ? (Y/N)	ing Water					(will be a Standari Please r days - cr	r (Standard) TAT: applied if Rush TAT is not specified): d TAT = 5-7 Working days for most tests note: Standard TAT for contain tests such as BOD and contact your Project Manager for details. ecific Rush TAT (if applies to entire submission) 2 2 3 2 3 2 3 2 3 2 3 2 4 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Dioxins/Furans
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ac Name	Darren Thoma		c	Contact Name	Darren T	homas		<u> </u>		P.O. #						AVS
959	#1 - 4376 BOE		A	ddress						Project #		ENW03150-01	. , ,	_ B	8809848_COC	546212
	NANAIMO BC						_	3111		Project Name	SASO	De Lead	test	ns		sct Man
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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

		Date	Date		
Analyses	Quantity	y Extracted	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	2 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

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.



TETRA TECH CANADA INC.

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

Sampler Initials: DT

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	·	-	<u> </u>	•	•		•	•		
Total Lead (Pb)	ug/L	10	6.98	3.76	1.11	7.51	15.8	11.1	0.20	8898737
No Fill	No Excee	dance								
Grey	Exceeds 1	criter	ia policy/level							
Black	Exceeds b	oth cr	iteria/levels							
RDL = Reportable Detection	n 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 Excee	dance								
Grey	Exceeds 2	L criter	ia policy/level							
Black	Exceeds b	oth cr	iteria/levels							
RDL = Reportable Detectio	n Limit									

RD	L =	Reporta	ble [etect	ion I	_imi1
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-										
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 Excee	dance								
Grey	Exceeds :	1 criter	ia policy/level							
Black	Exceeds l	both cr	iteria/levels							
RDL = Reportable Dete	ction Limit									



TETRA TECH CANADA INC.

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

Sampler Initials: DT

Maxxam ID			SW7429		SW7430	SW7439	SW7440	SW7441		
Comuling Date			2018/01/28		2018/01/28	2018/01/28	2018/01/28	2018/01/28		
Sampling Date			12:00		12:00	12:00	03:00	03:00		
COC Number			545893-12-01		545893-12-01	545893-13-01	545893-13-01	545893-13-01		
	UNIT	S MAC	GA19-OS	QC Batch	GA20-OS	GADUP-OS	PA01-OS	PA02-OS	RDL	QC Batch
Total Metals by ICPMS	•				<u> </u>	<u> </u>	•	<u> </u>	-	·
Total Lead (Pb)	ug/	. 10	8.22	8898737	9.32	8.78	13.7	17.3	0.20	8898755
No Fill	No Exce	edance		•	•	•	•	•	•	,
Grey	Exceeds	1 criteri	a policy/level							
Black	Exceeds	both cri	iteria/levels							
RDL = Reportable Detec	tion Limit									



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

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 Excee	dance								
Grey	Exceeds 1	criter	ia policy/level							
Black	Exceeds b	oth cr	iteria/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 Wietais by ICPIVIS										
Total Lead (Pb)	ug/L	10	3.75	1.03	30.2	3.29	3.07	4.19	0.20	8898755
•	ug/L No Excee		3.75	1.03	30.2	3.29	3.07	4.19	0.20	8898755
Total Lead (Pb)	No Excee	dance	3.75	1.03	30.2	3.29	3.07	4.19	0.20	8898755

		l .							1	
Maxxam ID			SW7454	SW7455	SW7456		SW7457	SW7458		
Sampling Date			2018/01/28	2018/01/28	2018/01/28		2018/01/28	2018/01/28		
Sampling Date			03:00	03:00	03:00		03:00	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 Exceed	dance								
Grey	Exceeds 1	criteri	a policy/level							
Black	Exceeds b	oth cri	teria/levels							
RDL = Reportable Detect	on Limit									



TETRA TECH CANADA INC.

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

Sampler Initials: DT

Maxxam ID			SW7460	SW7461	SW7462	SW7463	SW7464	SW7465		
Sampling Date			2018/01/28	2018/01/28	2018/01/28	2018/01/28	2018/01/28	2018/01/28		
Sampling Date			05:00	05:00	05:00	05:00	05:00	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 Excee	dance	•						-	
Grey	Exceeds 1	criter	ia policy/level							
Black	Exceeds b	oth cr	iteria/levels							
RDL = Reportable Detectio	n Limit									



TETRA TECH CANADA INC.

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

Sampler Initials: DT

Maxxam ID				SW7466		
Sampling Da	ite			2018/01/28 05:00		
COC Numbe	r			545893-15-01		
			MAC	SBDUP-OS	RDL	QC Batch
Total Metals						
Total Lead (F	Pb)	ug/L	10	0.75	0.20	8898774
No Fill	No Exceedance	<u>;</u>				
Grey	Grey Exceeds 1 crit		y/leve	I		
Black	Exceeds both c	riteria/l	evels			
RDL = Repor	RDL = Reportable Detection I					



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.



QUALITY ASSURANCE REPORT

TETRA TECH CANADA INC.

Client Project #: ENW.VENW03150

Site Location: SD68 DW TESTING

Sampler Initials: DT

			Matrix	Spike	Spiked	Blank	Method B	lank	RPD)
QC Batch	Parameter	Date	% 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.



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.

nax	Maxima Analytics International Corporation of 4606 Canada Way, Burnaby, British Columbia	Canada VSG 1K5	Tel:(604) 734 7276 T	all-free 800-563-	6266 Fax: (604) 731 2386 www	r maxxam ca				Chain Of Custody R	70014	ne of
	INVOICE TO:			Report Informa	ition		Project Info	rmation				
muany Name	#1433 TETRA TECH CANADA INC.	Company Nar	ne Sur	61 1	wile	Quotation #	B60578	55		a programa		ler#:
ntact Name	Ben Barton #1 - 4376 BOBAN DRIVE	Contact Name				P.O.#				- RUZV4-55P	2017/63/90/746/70/2016	1101
dress	NANAIMO BC V9T 6A7	Address	-			Project #	SAGE	W03150	/	- Water		1
one	(250) 756-2256 x Fax: (250) 756-2686 x	Phone	-		Fax:	Project Name	SpeD	DW 1	string	B807281	COC	nager
ail	bbarton@eba.ca; EBA.Labdata@tetratech.com	Email	12.10	0.00		Site # Sampled By	Dive	Mari	us		100 F	ntaine
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7	NA Health Canada			pa	Š			- 1		Job Specific Rush TAT (if app	lies to entire submission)	
				E.	Drinking		1 1		1	1 DAY 2 Day 3	Date Required	
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GA	03+05 GA33-05			N	2					()		
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IS THE RES	PONSIBILITY OF THE RELINGUISHER TO ENSURE THE ACCURACY OF THE	CHAIN OF CUSTO	DY RECORD. AN INCO	MPLETE CHAIN	OF CUSTODY MAY RESULT IN	MALYTICAL TAT DELAYS.						

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